JUNE 21, 1954

What Kind of Diesel Shops? . . . p. 33

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The Standard Railroad WEEKLY Since 1856

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To handle 26-car trains of coke up a 1.7% grade into its new mill at Trenton, Mich., McLouth has recently added two new 900-H.P. units to its fleet of General Motors switchers. With weight ballasted to 124 tons on drivers, and horsepower increased by $12\frac{1}{2}\%$, these new heavy-duty units handle the

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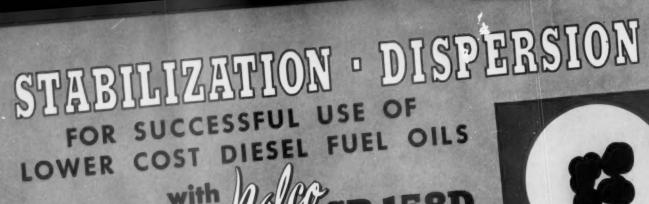
Revenues and Expenses of Class I Roads

Young Wins Central Proxy Fight

Report of Superintendents' Convention

'Quake Resistant Station at Tacoma

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June 21, 1954

Vol. 136, No. 25

Week at a Glance

- Piggyback tariffs have been suspended by the ICC, on six railroads—and those roads have vigorously protested the suspension.
- Robert R. Young and his associates have won control of the New York Central—making it the third major railroad to acquire wholly new management within a period of less than two months.
- The railroad's place in civil defense, and a preview of how they might perform under atomic attack, was demonstrated in Chicago, as part of last week's national air raid drill.
- FORUM: It's time to cut down on public controversy!
 Some differences in viewpoint, as exemplified by recent
 proxy fights, are inevitable, and not always unhealthy.
 But in an industry like the railroads, where rivals must
 work together, they cannot be carried to extremes.

 29
- An earthquake resistant station embodying some interesting construction and economic features, now serves the Milwaukee at Tacoma.
- What kind of diesel shops? The Frisco's answer to that important question is given in the second of a continuing series of articles on aims, methods and outlook of contemporary railroad management.

 33
- Fred J. Voss now heads the DM&IR, as successor to P. H. Van Hoven.
- Service was the keynote at the annual meeting of the American Association of Railroad Superintendents. 37

BRIEFS

Box cars can be upgraded for grain or other commodities requiring a tight car by spraying broken out roofs, floors, and linings with the same plastic used by the

Current Statistics

Operating revenues, four month	hs
1954	3.030.657.088
1953	-,,,
Operating expenses, four month	
1954	2,455,506,101
1953	2,653,454,001
Taxes, four months	
1954S	297,338,860
1953	422,069,552
Net railway operating income,	four months
1954\$	206,661,676
1953	353,248,469
Net income, estimated, four mo	nths
1954\$	128,000,000
1953	262,000,000
Average price railroad stocks	
June 15, 1954	66.37
June 16, 1953	61.65
Carloadings, revenue freight	
Twenty-three weeks, 1954	14,243,092
Average daily freight car surply	JS.
June 12, 1954	85,485
June 13, 1953	30,934
Average daily freight car shorta	ge
June 12, 1954	374
June 13, 1953	3,773
Freight cars delivered	
May 1954	3,173
May 1953	6,582
Freight cars on order	
June 1, 1954	15,615
June 1, 1953	57,345
Freight cars held for repairs	
April 1, 1954	102,266
April 1, 1953	94,896
Average number of railroad en	
Mid-May 1954	1,061,885
Mid-May 1953	1,217,477
-	

RAILWAY AGE IS A MEMBER OF ASSOCIATED BUSINESS PUBLICATIONS (A.B.P.) AND AUDIT BUREAU OF CIRCULATION (A. B. C.) AND IS INDEXED BY THE INDUSTRIAL ARTS INDEX AND BY THE ENGINEERING INDEX SERVICE. RAILWAY AGE INCORPORATES THE RAILWAY REVIEW, THE RA'LROAD GAZETTE, AND THE RAILWAY AGE GAZETTE.

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Week at a Glance CONTINUED

armed forces to "mothball" equipment ranging from locomotives to warships. First railroad to try the process is the Rock Island, which calls it "Wilsonizing," in honor of M. R. Wilson, general superintendent motive power, who conceived the idea. More on this later.

That French-style piggyback might soon appear on the American scene was indicated in our June 7 issue. Now a new corporation, Piggy-Back, Inc., 20 Exchange place, New York 5, has been created to introduce the French system here. This company is starting negotiations with American manufacturers for building trailers and flat cars.

The ICC expects speed limits required by its 1947 signaling order to be observed on timetable-and-train-order lines—unless commission-approved relief from that order is currently in effect. The commission emphasized this in a recent accident report which noted that a train involved was exceeding the limit on a line where relief from the 1947 order, in the form of more time to complete planned signaling work, expired 1½ years ago.

Legislation to end the bankruptey of the Long Island and provide for physical rehabilitation of that railroad, in line with plans outlined in Railway Age May 31, page 11, has been approved by a special session of the New York State legislature and signed by Governor Dewey. Thomas M. Goodfellow, superintendent of the Pennsylvania's Pittsburgh division, has been appointed general manager of the LI, and will assume his new duties as soon as the railroad's bankruptey is terminated.

ACF's "Talgo" train will definitely make one or more demonstration and clearance test runs on the New Haven within the near future, probably sometime this month.

Missouri Pacific Lines joined the western railroads' family fare plan on June 16.



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 Now you can prevent costly train operating delays with the Westinghouse Air Brake Company Brake Pipe Flow Indicator.

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Piggyback Tariffs Suspended

ICC division holds up services proposed by six roads; appeal taken to entire commission

The Interstate Commerce Commission, Division 2, last week suspended for seven months the tariffs whereby six railroads proposed to inaugurate trailer-on-flat-car services on June 16 and later this month.

The railroads were the Baltimore & Ohio, Erie, Nickel Plate, Lackawanna, Pennsylvania and Wabash. They immediately filed a petition for reconsideration of Division 2's order by the entire commission.

Important Matter—"The proposed service," the petition said, "represents the most important change in the method of railroad transportation in many years . . . The order of Division 2, if permitted to stand, will delay for an extended period of time the commencement of the proposed service by these respondents and will discourage attempts by the railroads to furnish new types of improved service for the benefit of the public."

The petition continued to say that piggyback service, "without commission objection, is now being performed by a number of railroads under similar tariffs." It was also noted that the suspension came after much preparation for the service had been made.

Plans Foiled—The petition put it this way: "Flat cars have been equipped; trailers have been acquired; terminal facilities have been provided; personnel have been delegated and trained; and all plans perfected to inaugurate the service . . . All of the plans, effort and investment of these railroads are now held inactive."

T-O-F-C services proposed in the tariffs were outlined in recent announcements, as reported in Railway Age of May 24, page 6, and June 14, page 9. The commission's suspension order instituted and investigation of the tariffs, docketing the proceeding as I. & S. No. 6214. No date was set for the hearing.

Protestants—Among those protesting against the tariffs and seeking the suspension were various motor carrier rate bureaus and the Regular Common Carrier Conference of American Trucking Associations. Also, four Brooklyn terminal companies, including Bush Terminal.

Meanwhile, the general piggyback case (No. 31375) remains set for oral argument before the entire commission in Washington on June 28. The argument will deal with 12 "basic and

JOHN H. WINCHELL APPOINTED TO ICC

John H. Winchell, chairman of the Public Utilities Commission of Colorado, has been nominated by President Eisenhower for membership on the Interstate Commerce Commission.

The nomination went to the Senate June 15. If confirmed by that body, Mr. Winchell would become the successor to former Commissioner James K. Knudson for the remainder of a term expiring December 31, 1960. Mr. Knudson's term expired at the end of last year, but he continued to serve until last month, when he resigned to enter private law practice. (Railway Age, May 31, page 14.)

Mr. Winchell was born in August 1892. A Republican, he has been a member of the Colorado commission since March 1, 1951, and its chairman since July 3, 1953. For a short while before he became a member, he was attorney for the commission. He attended the Colorado School of Mines; and he received his law degree in 1947 from the Westminster Law School of Denver.

fundamental" questions relating to T-O-F-C operations. (Railway Age, May 3, page 9.)

Young Wins Control of NYC

Takes command as chairman; A. E. Perlman is elected president by new board, to succeed William White

Robert R. Young was elected chairman of the New York Central on June 14. His election—and that of Alfred E. Perlman as president, to succeed William White—climaxed a bitter struggle for control of the railroad which began last February 10 when the NYC's then board of directors rejected a request that Mr. Young and an associate, Allan P. Kirby, be elected to the board, and that Mr. Young be named chairman.

The battle ended officially when it was announced at the June 14 concluding session of the twice-recessed annual meeting of shareholders that Mr. Young personally polled 3,407.512 votes, compared with 2,340,239 for Mr. White. Shares voted comprised slightly more than 89% of the 6,447,410 outstanding shares.

New Directors-The Central's new board of directors consists of Messrs. Young and Kirby, chairman and president, respectively, of Alleghany Corporation; William P. Feeley, president, Great Lakes Dredge & Dock Co.; Walter Graham, Jr., a surgeon; William H. Landers, retired NYC engineman; Mrs. Lila Bell Acheson Wallace, editor and co-owner of the Reader's Digest; Frederick Lewisohn and Earl E. T. Smith, members of the New York Stock Exchange; Richard M. Moss, chairman, Clinton Foods, Inc.; Clint W. Murchison, president, Delhi Oil Corporation; Eugene C. Pulliam, newspaper publisher; Sid W. Richardson, partner in Richardson & Bass; Daniel E. Taylor, president, West India Fruit & Steamship Co.; Orville Taylor, partner in the legal firm of Taylor, Miller, Busch & Magner; and Andrew Van Pelt, an Alleghany director. The first meeting of the new board was attended by all except Messrs. Murchison and Richardson.

The new directors, it was announced, waived all directors' fees for attending board meetings until NYC stock is on a \$2-per-share dividend rate. Annual fees received by members of the executive committee also were waived until the \$2 dividend rate is achieved. Heretofore, directors have received \$150 each for every monthly board meeting, and members of the executive committee have each receivel \$3,000 a year. Mr. Young will serve as chairman at a yearly salary of \$1.

White Offers Cooperation—Mr. White, in a statement to the press, said "I have offered to cooperate in the interest of orderly transition, but will accep' no compensation therefor." He said he was "particularly heartened by the fact that the vast majority of NYC shareowners registered their support for management. Even though a majority of shares were not voted for



NEW YORK CENTRAL'S NEW BOARD AND PRESIDENT as they convened for the first time in the board room of the railroad at 230 Park avenue, New York City. Left to right are: Richard M. Moss, Frederick Lewisohn, William H. Landers, Allan P. Kirby, R. Walter Graham, Jr., William P. Feeley, Alfred E. Perlman, Robert R. Young,

G. W. Glenn, Mrs. Lila Bell Acheson Wallace, Andrew Van Pelt, Orville Taylor, Daniel E. Taylor, Earl E. T. Smith, and Eugene C. Pulliam. Two directors—Clint W. Murchison and Sid W. Richardson—were not present. Mr. Glenn, a member of the law firm of Lord, Day & Lord, and Mr. Perlman, are not directors.

management, a majority of shareowners did. We were beaten only by the approximate number of shares which nominees of the Alleghany-Young-Kirby group bought for their own account."

Not an Easy Task-Mr. Young's first statement as NYC chairman said:

"Our self-imposed task of rehabilitating the Central, one of the weakest links in an industry notable for its poor return to security holders, is not an easy one. Success we cannot guarantee, but we can pledge sincere and honest effort. There is a bright side to the industry's low state in the fact that all its 41,000 passenger cars and most of its 1,800,000 freight cars can be replaced by more efficient types and more than pay their cost out of savings. The competition of airplanes, buses and automobiles, economically produced in volume and frequently improved, cannot be met by 19th century railroad cars weighing three times as much per passenger and costing three times as much per parer pound.

per pound.

"Nor can we expect to retain the traffic of shippers when speed-restricted trucks can make quicker deliveries over congested highways than we can over our exclusive and wide open rights of way. Industry wide planning for and agreement on improved and standardized equipment designs, volume purchasing, freight and passenger terminal adaptation to the motor age, greater use of each other's facilities, accounting, reservation and ticketing simplification and many other cooperative projects are long overdue. The Central, under Mr. Perlman and its owners, will exert its example and influence to that end."

Mr. Perlman—The new president and chief executive officer of the Central, Mr. Perlman, had been executive vice-president of the Denver & Rio Grande Western since 1952.

"My first objective will be a better acquaintance with the NYC family and an opportunity to assess the problems facing them," Mr. Perlman said. "With the abundance of talent among the 100,000 employees on the railroad I am certain we can build a wonderful team. . . It is not my thought that we will revolutionize the railroad overnight but we will build a firm foundation upon which will rise a progressive and modern structure of which we can all be proud."

When asked to comment on his plans, Mr. White said "I'm going to sit on a rocking chair on my porch and rest for the entire summer." He told reporters he will attend the NYC annual meeting next year. "We will set of Central stock rises," he added. "We will ask for an accounting of promises made. They will not be forgotten."

Operations

Railroads in "A" Bomb Drill

Chicago roads find themselves badly "hit," but capable of coordinated emergency service to edge of damaged areas in a matter of two hours, their solution to the exercise reveals

The 41 railroads of the Chicago metropolitan area seemed to be the special target of the three theoretical "8x" atomic bombs which were considered to have been dropped on the city last Monday. Yet because the roads have been working closely with one another on civil defense since 1950, they were ready with a plan of action that would save an estimated 115,000 lives and offer service to the fringe of the damaged areas within a matter of two hours after the theoretical blasts.

The bombs would have wiped out virtually all yards and terminals in the downtown area; severed nearly all main-line connections to the north and northwest; and immobilized many key yards in the industrialized southwest side, but would have left facilities in

the vital lake front industrial areas virtually undamaged and in need of immediate service.

immediate service.

Although the general public participated briefly in the test exercise with "duck and cover" tactics just before the bombs were supposed to have been dropped, the real purpose of the exercise was to "feel out" the planning of the country's civil defense units, including the utilities, transport, police, firefighting, medical and welfare groups that form the core of the nationwide civil defense organization. For most of them, this was a two-day practice in which they had to submit to their regional authorities a detailed written solution to the problems presented by the blasts.

Because the railroads of Chicago have what may well be the most ad-

vanced civil defense transportation organization in the country, the plans they have worked out over the past four years (Railway Age, December 23, 1951, page 20) are of interest to carriers elsewhere. Here are some of the highlights from their written solution:

Dispersal First—Upon receipt of the "yellow" alert (presumably about two hours in advance of the actual attack), an already-rehearsed warning code is flashed to each of the alreadyestablished emergency operating headquarters in the five basic railroad zones into which the city has been divided. Each of these zones has one or more alternate headquarters.

Immediately upon receipt of the warning, a program is activated whereby passenger equipment and locomotives on hand in downtown stations arescheduled to handle dispersal of persons to comparative safety in outlying suburbs. From an actual check of equipment available on a previous Monday, the railroads' report showed that about 115,000 persons could be thus moved. At the same time, all but a skeleton force of railroad civil defense personnel would be dispersed aboard these trains. This is to assure uninterrupted railroad operation through survival of at least one fullymanned operating headquarters in each of the railroad zones.

These trains would then be combed for suitable equipment to be returned to the fringe of the bombed areas to aid in evacuation of the homeless and injured. Motive power, dispersed in drags if necessary, from other yards and terminals, would then be sent back to the city to assist in this work with trains of empty box cars, as they can be made up. Water for firefighting and for drinking and medical purposes would be handled by tank cars under a program of cleaning and filling that would be activated as soon as the "yellow" alert is received.

To obtain factual material for the report, a detailed inventory of all motive power, rolling stock and important communications and maintenance equipment was conducted over the entire metropolitan area. Maps furnished by federal authorities showed where and how the city was hit. The carriers' solution was based entirely upon conditions thus outlined.

The 41 railroads come under the transportation, engineering and traffic planning unit of the Chicago Civil Defense Corps and the Illinois Civil Defense Agency. Herman H. Peyler, vice-president, Western region, Pennsylvania, is chief railroad operating officer of the state—an assignment he took over from D. A. Fawcett, vice-president of the New York Central on June 1. C. P. Fisher, general manager of the Chicago Union Station Company, is operating officer of Region I, which incorporates the northern half of Illinois, and has taken a leading part in railroad civil defense activities since 1950.

Labor & Wages

Dispatchers Accept Five-Cent Wage Hike

The American Train Dispatchers Association has followed the pattern set by the brotherhoods of trainmen, conductors, firemen and switchmen in accepting a wage increase and extended vacations based on the so-called "trainmen" package.

The settlement, reached in Chicago June 10, following several weeks of mediation, calls for a wage increase of five cents an hour plus the 13 cents an hour currently being paid under the cost-of-living escalator agreement. The new agreement incorporates the 13-cent increase into basic wage rates and provides for termination of the escalator provision. Train dispatchers with 15 or more years of service will get three-week annual vacations under the new settlement.

The organization had sought 10 days of sick pay annually, which would have been cumulative up to a maximum of 80 days. It also sought threeweek annual paid vacations for employees of from five to 15 years' service; and four weeks for those with longer service.

Figures of the Week

Passenger Service Losses in 1953

Long Island was only one of 37 large roads which had a ratio under 100—Range was from its 93.5 to Cotton Belt's 223.5

The Long Island was the only large railroad with a 1953 passenger service operating ratio under 100.

This was pointed up in a table published in the latest "Monthly Comment" of the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission. The table, reproduced herewith, showed last year's results from freight and passenger service for 37 large roads.

The bureau gave no comparisons with 1952. It explained that comparability of 1953 figures with those of prior years was affected to an undetermined extent by the January 1, 1953,

1953 Results from Passenger and Freight Services

Large railways (Dollar items in thousands)

		way oper- income	Operat	ing ratios
	Freight	Passen- ger and allied	Freight	Passen- ger and allied
Road	service	services	service	services
Eastern district:		(D. (1.1.)		
Baltimore & Ohio Boston & Maine Central of New Jersey Delaware, Lackawanna & Western Erie Lehigh Valley Long Island New York Central New York Chicago & St. Louis New York, New Haven & Hartford Pennsylvania Reading Wabash	\$80,535 18,358 14,133 15,107 29,805 14,362 2,631 114,656 24,765 23,327 131,332 24,852 17,441	(Deficit) \$36,737 12,976 9,243 4,919 10,833 3,827 2,828 52,439 2,993 13,368 56,650 7,986 3,937	70.2 60.9 63.8 68.6 67.7 71.8 65.4 71.8 66.1 65.1 74.4 70.1 68.0	180.0 153.4 185.9 121.6 161.3 142.9 93.5 119.2 157.2 102.6 118.8 165.5 126.6
Pocahonias region Chesopeake & Ohio	75,037 39,071	15,121 11,343	67.0 65.0	179.4 192.1
Southern region Atlantic Coast Line Gulf, Mobile & Ohio Illinois Central Louisville & Nashville Seoboard Air Line Southern	27,342 15,989 46,422 49,437 34,151 56,703	17,045 5,297 13,482 15,052 10,322 14,717	72.4 63.4 64.1 64.1 61.2 58.4	146.5 139.0 128.5 144.1 134.9 134.1
Western district Atchison, Topeka & Santa Fe & affill. cos. Chicago & North Western Chicago, Burlington & Quincy Chicago, Milwaukee, St. Paul & Pacific Chicago, Rock Island & Pacific Denver & Rio Grande Western Great Northern Missouri-Konsas-Texas Lines Missouri Pacific Northern Pacific St. Louis-San Francisco St. Louis Southwestern Southern Pacific Texas & New Orleans Texas & Pacific Union Pacific Union Pacific Union Pacific Union Pacific Union Pacific Texas & Pacific Union Unio	117,183 32,377 50,907 36,568 42,611 17,672 48,550 15,635 39,582 30,262 24,207 15,155 93,032 17,423 18,989	42,074 23,420 21,033 21,904 14,352 4,577 21,019 6,150 16,160 15,395 8,991 1,318 45,919 6,458 82,218	60.8 71.1 62.1 74.0 59.4 57.7 62.5 64.1 73.4 71.3 65.8 66.0 65.8 57.9	134.6 152.8 139.3 150.3 131.5 167.4 175.1 150.5 156.0 223.5 153.5 153.5 158.2

revision of commission rules governing separation of expenses, taxes and rents as between passenger and freight services (Railway Age, May 24, page 6).

Freight Car Loadings

Loadings of revenue freight in the week ended June 12 totaled 697,583 cars, the Association of American Railroads announced on June 17. This was an increase of 85,268 cars, or 13.9 per cent, compared with the previous week; a decrease of 99,669 cars, or 12.5 per cent, compared with the corresponding week last year; and an increase of 66,541 cars, or 10.5 per cent, compared with the equivalent 1952 week.

Loadings of revenue freight for the week ended June 5 totaled 612,315 cars; the summary, compiled by the Car Service Division, AAR follows:

REVENUE Fi For the week District Eastern Allegheny Pocahontas Southern Northwestern Central Western Southwestern			
Total Western Districts	252,379	302,825	270,407
Total All Roads	612,315	775,489	684,247
Commodities: Grain and grain products Livestock Coal Coke Forest products Ore Merchandise I.c.I. Miscellaneous	39,514 5,633 94,205 7,146 38,715 69,793 52,390 304,919	47,434 7,826 127,058 14,126 45,470 90,757 67,246 375,572	44,509 6,958 114,451 8,583 44,810 56,448 70,359 338,129
June 5	612,315 689,292 681,967 677,581 647,954	775,489 786,755 769,618 779,805 765,411	684,247 696,860 761,705 754,448 719,859
Cumulative total, 23 weeks14	,243,092	16,498,452	16,614,434

In Canada.—Carloadings for the 10-day period ended May 31 totaled 84,684 cars, compared with 72,963 cars for the previous seven-day period, ac-

cording to the Dominion Bureau of

Totals for Canada: May 31, 1954 84,684 38,987 May 31, 1953 111,112 46,542 Cumulative Totals May 31, 1954 1,419,465 613,227 May 31, 1953 1,584,856 687,603		Cars Loaded	Rec'd from Connection
May 31, 1953 111,112 46,542 Cumulative Totals May 31, 1954 1,419,465 613,227			
Cumulative Totals May 31, 1954 1,419,465 613,227			
May 31, 1954 1,419,465 613,227		. 111,112	46,542
May 31, 1954 1,419,465 613,227 May 31, 1953 1,584,856 687,603			
May 31, 1953 1,584,856 687,603	May 31, 1954	. 1,419,465	
	May 31, 1953	. 1,584,856	687,603

Equipment & Supplies

SP Orders 10 "Gallery" Suburban Coaches

An order for 10 gallery-type suburban coaches has been placed with the Pullman-Standard Car Manufacturing Company by the Southern Pacific. They will include a number of design fea-tures suggested by SP commuters who recently inspected and rode in a gallery car borrowed from the Burlington (Railway Age, April 5, page 16). Among the changes is the provision of more space for coats and parcels for patrons seated in the lower deck. The cars will be equipped with more toilet facilities; cooled drinking water; foam rubber seats; disk brakes; tinted windows; and self-contained air conditioning and zone heating and cooling equipment.

To provide customer-specified facilities, the SP had to reduce the seating from 148 persons, the capacity of the Burlington cars, to 145. The SP indicated that the new cars "and possibly some other trains in this service" would be handled by diesel locomotives.

FREIGHT CARS

The 200 new depressed-center trailer transport cars intended for use in the **Pennsylvania's** piggyback service (*Railway Age*, May 3, page 8), will

be built by ACF Industries at a cost of more than \$2,000,000.

LOCOMOTIVES

The Baldwin-Lima-Hamilton Corporation has announced receipt of orders for industrial locomotives from the General American Transportation Corporation (one 35-ton diesel-hydraulic unit); the Babcock & Wilcox Co. (one 50-ton diesel-electric unit); and the Pittsburgh Plate Glass Company (one 80-ton diesel-electric unit).

Supply Trade

Charles J. Miller, assistant eastern manager for the P&M Co., at New York, has been appointed eastern



Charles J. Miller

manager, succeeding L. S. Walker, retired. D. M. Clarke, sales engineer, has been named assistant eastern manager, succeeding Mr. Miller.

Ralph L. Leadbetter, vice-president in charge of the Dallas division of Burgess-Manning Company, has been elected president, succeeding Willis L. Manning, who will continue as treasurer and a director.

T. E. McDowell, vice-president—research and development, of Pyle-National Company, has been elected vice-president—e...gineering of Brandon Equipment Company, at Chicago.

The Wellman Engineering Company has acquired from the Browning Crane & Shovel Co. the latter's locomotive crane division and plant, which will be known as the Wellman Browning Locomotive Crane Division, with headquarters at 7000 Central avenue, Cleveland 4.

H. R. Salisbury retired June 1 as president of Air Reduction Sales Company. He was succeeded by J. H.



THE KANSAS CITY SOUTHERN'S new North Shreveport yard office building, which is to be built in connection with a \$5½-million terminal yard project at that point. The main building (a sketch of which is shown here) will be of masonry construction with two floors of 13,000 sq ft cach, plus a walk-in basement on the yard side. The building will house all

KCS executive and office personnel in the Shreveport area, with the exception of the accounting department, general agency staff and the city ticket office. A smaller building of similar construction will house a cafeteria and sleeping quarters for train and engine crews. Neild & Somdel, of Shreveport, are the architects of the building.

Humberstone, president of the Ohio Chemical & Surgical Equipment Division of the Air Reduction Company. Mr. Salisbury will continue as a director of various Airco foreign subsidiaries.

Wix Corporation has appointed Earl A. Mann and Robert E. Mann of the Modern Supply Company as Chicago area representatives for Wix railroad products.

The railroad supply division of Warren Soap Manufacturing Company has appointed Samuel P. Goodloe, Richmond, Va., as southern representative.

Edmund L. Bataille has been appointed sales manager for the Winslow Company, Newark, N.J. He has been engaged in sales management in the equipment field in the metropolitan New York-New Jersey area.

Gates Rubber Company has appointed W. M. Gibbs Railway Supply Company, 332 S. Michigan ave., Chicago, as distributor for its railroad belt and hose.

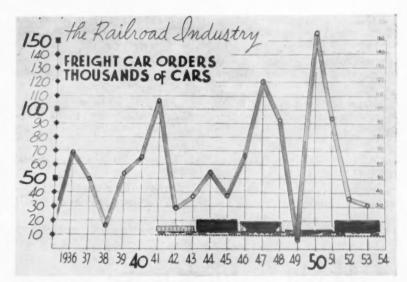
Herschel E. Post, general sales manager, industrial finishes, Pittsburgh Plate Glass Company, at Pittsburgh, has been appointed general manager, Pacific Coast paint division, Torrance, Cal. He has been succeeded by Howard J. Mather, sales manager of the Suydam division, who in turn has been succeeded by George P. Myers, assistant general sales manager, industrial finishes.

G. Fred Driemeyer, vice-president—sales of General Steel Castings Corporation at Granite City, Ill., has been elected president of Commonwealth Sales Corporation, export sales agent for the parent company.



Howard F. Park, Jr.

Mr. Driemeyer continues as a vicepresident, in which capacity he will direct the company's foreign sales activities, while **Howard F. Park**, **Jr.**, manager of sales, succeeds him as vice-president in charge of domestic sales.



ONE REASON WHY PRESSED STEEL CAR COMPANY has permanently closed all its railway freight car building facilities (Railway Age, June 7, page 16), is shown by this chart. The company cited the grow-

ing trend toward car building in railroad owned shops, and the "feast or famine" nature of railroad car buying, as contributing toward its decision to step out of the railway field.

Securities

Dividends Declared

CANADA SOUTHERN.—\$1.50, semiannual, payable in Canadian funds August 2 to holders of record June 23.

EAST PENNSYLVANIA.—\$1.50, semiannual, payable July 20 to holders of record July 1.

LYKENS VALLEY.—40¢, semiannual, payable July 1 to holders of record June 15.

MAHONING COAL.—common, \$10; 5% preferred, \$1.25, semiannual; both payable July 1 to holders of record June 21.

MASSAWIPPI VALLEY.—\$3, semiannual, payable August 2 to holders of record July 1.

PIEDMONT & NORTHERN.—\$1, quarterly, payable July 20 to holders of record July 6.

PITTSBURGH & LAKE ERIE.—\$1.50, quarterly, payable July 15 to holders of record June 21.

PROVIDENCE & WORCESTER.—\$2.50, quarterly, payable July 1 to holders of record June 14.

\$TONY BROOK.—\$2, semiannual, payable July 5 to holders of record July 1.

TEXAS & PACIFIC.—common, \$1.25, quarterly; 5% preferred, \$1.25, quarterly; both payable June 30 to holders of record June 23.

Security Price Averages

	June 15	Prev. Week	Last Year
Average price of 20 repre- sentative railway stocks	66.37	64.07	61.65
Average price of 20 repre- sentative railway bonds	94.78	94.48	89.12

Authorizations

ATCHISON, TOPEKA & SANTA FE.—To Issue short-term notes in amounts aggregating not more than \$17,000,000 to obtain cash to pay federal income taxes. The notes, evidencing a loan from Goldman, Sachs & Co., will be issued on a discount basis at an interest rate equivalent to 1.625% per year. In denominations of \$506,000, they will be dated June 14 and mature not later than December 14.

NEW YORK CENTRAL.—To issue \$714,000 of promissory notes to finance in part acquisition

of 14 steel freight barges (Reilwey Age, May 31, page 16). The notes, bearing interest at 31/4%, will be payable in quarterly installments beginning after the equipment is delivered and accepted.

Railway Officers

DULUTH, MISSABE & IRON RANGE.—As reported on page 36, H. A. Smith, assistant chief engineer, has been appointed chief engineer at Duluth. Mr. Smith joined the DM&IR as draftsman in 1916 and later became



H. A. Smith

chief clerk—bridge and building and assistant supervisor—bridge and building before being named supervisor bridge and building in 1931. He was appointed principal assistant engineer in 1942, and in 1949 was advanced to assistant chief engineer.

FRISCO.—J. W. Tipton, freight traffic manager, has been named general freight traffic manager at St. Louis, succeeding F. G. Baker, who recently was advanced to vice-president and executive general agent at New York (Railway Age May 24). W. T. Rutherford, Jr., traffic manager at Tulsa, Okla., succeeds Mr. Tipton, while Bruce F. Mahon, Jr., general agent at Kansas City, Mo., replaces Mr. Rutherford. Mr. Mahon's successor is T. M. Mahon, Jr., commercial agent at Pittsburgh. Photos and

sketches of Messrs. Tipton and Rutherford appeared in Railway Age, May 11, 1953, page 27.

LAKE TERMINAL.—R. D. Adamson has been appointed trainmaster at Lorain, Ohio.

LEHIGH & HUDSON RIVER—D. G. Bainbridge and Emile Theodore have been appointed assistant general freight agents at Warwick, N.Y., and Pittsburgh, Pa., respectively. F. J. Pierce has been named general agent at Cleveland.

LOUISVILLE & NASHVILLE. — C. E. Jeffries, chief rate clerk in

TARBUTTON TO RETIRE

Ben J. Tarbutton, president of the Central of Georgia since 1951, has announced his intention to retire from that position, effective following action by the road's board of directors at its next regular meeting on July 16. Mr. Tarbutton will continue as a director and a member of the company's executive committee.

the passenger traffic department at Louisville, has been appointed assistant general passenger agent there, to succeed Frank C. Cowherd, retired. Also named as assistant general passenger agent at Louisville is Robert P. Ethridge, assistant to general passenger agent.

READING.—Harry E. Hammer, assistant publicity manager, has been named director of public relations at



Harry E. Hammer

Philadelphia, succeeding Irwin L. Gordon, who retired May 1, after almost 30 years as publicity manager.

OBITUARY

R. H. Jensen, trainmaster of the Milwaukee at Deer Lodge, Mont., died May 15.

William C. Huxhold, assistant traffic manager of the Cotton Belt, died recently.

P. W. Grayson, 72, who retired in June 1951 as general storekeeper of the Texas & Pacific, died at his home in Marshall, Tex., June 12.

J. C. Kirk, 75, who retired in January 1953 as freight traffic manager of the Nashville, Chattanooga & St. Louis, died June 11 at Nashville, of a heart attack.

Harrison F. Wyatt, 65, general manager of the Baltimore & Ohio Chicago Terminal, died June 15 in the Illinois Central Hospital, Chicago.

10 big features make MINK

WATER COOLERS different!

10 big reasons for specifying nothing short of genuine MINK

For Locomotives or any type of Rolling Equipment

- · Modern insulation method
- Instant cold water from immersed copper coils
- Condensation practically NIL—no catch basin necessary
- · Easily installed
- Easy to fill-large ice capacity
- Easy to sterilize and keep clean
- Stainless steel interiors
- Component assembly construction
- Simple drainage of entire unit by means of exposed globe valves
- Minimum maintenance

Don't confuse genuine Mink water coolers with any other make. A close examination will convince you that you have never seen such modern construction and engineering as embodied in Mink Coolers. Write or call for more information.



Model No. 26 Other models available

MINK-DAYTON, Inc.

117 N. FINDLAY ST., DAYTON 3, OHIO

REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands; i.e., with last three digits omitted)
MONTH OF APRIL AND FOUR MONTHS OF CALENDAR YEAR 1954

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Net 1954 \$32 \$11 5,786 19,429	2005 2005 104 194	1,013 4,933 73 275 2,748 10,493	314 314 1,180 281 281	43 346 53 286 76 76	218 369 1,335 134 977	3,578 13,460 13,460 1,098	31 13 13 10,453	362 1,349 138 679 678 1,545	1,156 5,307 -101 -751 1,294
Railwa aocrus \$39 136 7,019 24,936 313	20 Cr. 10 104 37	1,700 7,875 50 230 1,812 7,244	39 234 947 65 65	2,006 339 232 232 112	12 50 218 865 475 1,850	41 1,992 7,118 584	40 155 1,033 4,094 2,738 12,091	332 1,210 1,210 1,310 5,206	1,349 5,878 165 665 240 961
Net from railway operation \$91 326 12,258 43,664 175	317 317 317 43 165	3,275 14,726 142 547 5,665 22,206	2,221 -85 -568	1,057 3,640 38 -66 137 878	64 69 640 777 3,278	167 728 5,588 19,002 482 2,084	286 576 3,600 5,281 23,665	3,358 3,358 1,618 2,581 9,324	3.299 14,154 279 977 421 2,139
Operating ratio 1953 1954 1956 11.8 67.7 45.8 45.8	82.5 82.5 76.9 71.3	784.2 70.2 73.5 78.4 79.4	87.4 66.0 56.0 78.5 78.5	78.7 81.2 96.4 93.7 79.6 71.0	105.1 100.0 77.4 78.1 80.3	82.3 81.0 70.4 73.4	63.8 75.0 87.5 89.9 71.9 69.3	73.1 76.0 76.5 85.5 82.2	59.3 93.3 91.9 58.5 58.1
Oper 1954 78.6 80.5 71.8 74.7 44.7	82.8 86.3 74.6 73.7 73.3	76.5 74.2 75.6 76.2 81.8 82.0	98.7 98.1 65.3 106.2	84.8 86.7 131.5 112.2 76.9 69.3	75.2 92.3 80.9 81.7 82.3	81.6 79.9 77.6 80.1 81.8 80.7	80.5 87.5 95.3 73.7 71.4	67.8 68.6 78.1 76.5 86.3 87.5	78.7 76.7 90.4 68.5
Total 1953 #329 1,330 35,685 138,109 148 594	313 1,257 327 1,241 136 499	13,276 50,000 453 1,780 30,333 118,198	276 1,137 954 4,030 1,368 5,931	6,002 24,496 145 574 466 2,331	253 910 3,046 11,931 4,228 16,934	837 20,502 20,502 2,295 9,093	2,139 14,755 57,440 16,101 61,854	1,789 5,382 1,446 5,657 18,275 69,279	11,963 48,038 2,499 9,915 1,225 4,844
Total 1954 8334 11,347 31,149 128,643 548	268 1,126 269 1,159 121 454	10,633 42,348 440 1,751 25,530 100,964	238 927 972 4,028 1,460 5,558	5.876 23,664 157 611 454 1,979	195 831 2,707 10,986 3,879 15,273	740 2,887 19,343 76,349 2,168 8,728	455 1,993 13,663 53,688 14,798 59,204	1,828 7,346 1,339 5,273 16,220 65,067	11,822 46,712 2,252 9,199 1,160 4,644
Trans- portation \$133 540 113,949 56,758 1 271	142 567 131 538 53 189	4,889 19,896 168 667 13,275 52,852	130 515 341 1,457 1,523	3,068 12,390 21 88 208 1,042	116 491 1,293 5,300 1,971 8,137	364 1,494 8,502 33,546 1,040 4,189	180 6,972 28,280 7,502 30,656	3,372 627 2,484 7,527 31,346	23,281 1,251 5,216 377 1,566
Traffic \$37 151 1.256 4,719 6	122 172 173 173 173 173 173 173 173 173 173 173	390 1,576 18 70 873 3,396	9623829	120 468 	28 140 564 79 305	18 65 771 2,903 133 518	32 137 382 1,494 520 2,006	114 451 88 351 496 1,862	488 1,957 66 258 47 47 189
Expenses pment Deprec. and Retire- ments \$15 61 1,888 7,576 7,576	13 17 19 19	2,366 43 170 1,023 4,096	81 310 143 566	173 691 22 89 17	137 551 174 695	11 43 1,512 6,055 130 521	23 815 3,255 3,149	120 482 70 280 895 3,541	2,266 93 369 134 638
ain. Equipment and Expension Poper at 10 Poper 1953 mean	280 75 75 15 60	3,803 13,908 92 405 8,234 32,305	35 130 222 967 590 3,079	1,184 4,662 101 392 140 692	38 147 629 2,385 1,020 4,317	161 612 5,535 21,884 537 2,040	155 613 3,194 12,573 3,448 13,207	303 1,006 291 1,078 4,769 18,066	2,676 10,776 448 1,717 351 1,445
Total 1954 1954 255 8,032 4,541 82	256 55 55 51 51 51	2,671 10,410 101 100 6,138 24,249	30 107 218 923 684 2,712	1,050 4,367 107 424 98 500	231 23,179 956 3,521	4,981 20,660 481 1,923	131 600 3,023 11,186 3,505 14,213	430 1,689 1,010 4,241 17,006	2,727 III,732 405 1,667 336 1,468
Structures Deprec. Peprec. Retire ments 23 660 2,586 3	R 1-1-51 61 80	162 690 12 43 443 1,847	15 16 17 17	169 660 3 3 2 2 2 2 3	17 17 165 91 364	16 65 392 1,505 111	29 338 1,331 328 1,433	43 175 20 85 393 1,617	1,004 1,004 192 192 18
7	199 199 133 133	2,508 9,782 151 5,74 5,223 19,164	63 260 325 1,300 203 757	1,315 5,226 16 71 91 375	2,425 2,425 2,730	229 709 4,082 15,743 374 1,512	87 3,011 10,338 3,631 11,613	1,261 339 1,352 3,669 11,409	2.198 7.861 506 1,695 1,424
Total 1954 \$ 65 251 5.968 24,695 98	188 211 32 117	2,059 7,862 139 562 3,652 14,301	46 1,300 2,83 838	1,315 5,103 21 71 125 343	33 152 517 2,064 672 2,473	3,722 14,040 334 1,385	280 2.445 9.356 9.092	400 1,528 252 1,031 3,021 10,977	2,012 7,469 403 1,553 361 1,252
B 85252	1,523 396 1,614 700	15,760 62,761 644 2,423 38,687 148,274	316 1,181 1,376 6,107 7,560	7,624 30,152 151 613 586 3,285	241 910 3,937 15,282 5,264 20,732	1,017 3,773 29,109 109,865 3,082 12,049	851 2.851 16.863 63,907 22,385 89,264	2,750 7,365 1,902 7,392 21,365 84,327	17,252 70,791 2,678 10,786 2,092 8,339
Revenues 1954 1954 \$425 1,672 43,406 172,307 2,311 1,232	1,476 1,476 164 619	13,908 57,074 582 2,298 31,196	241 945 1,489 6,249 1,375 4,990	6,933 27,305 119 545 591 2,857	259 900 3,347 13,453 4,656 18,551	3.615 24,931 95,351 2,651 10,812	2,279 14,339 57,288 20,079 82,869	2,694 10,704 1,715 6,892 18,801 74,391	15,121 60,867 2,530 10,176 1,581 6,783
CD.	132 132 133	1,743	203 27 27 118	3,431	13 55 154 673 898 1,706	249 249 664 2,311 181 782	1,492	30 67 67 1,043 4,110	1,250 5,292 127 550 3
reigh \$418 1,642 3,477 3,477 1,203	235 970 290 1,197 164 614	11,041 44,320 564 2,235 27,164 108,236	186 730 1,415 5,954 1,361 4,931	5,379 20,816 119 545 545 2,545	226 755 755 11,582 3,820 15,351	3,097 22,946 88,674 2,180 8,898	2,225 11,120 44,193 16,278 68,033	2,496 10,005 1,521 6,149 15,709 62,597	12,414 49,660 2,193 8,809 1,576 6,750
Average mileage operated during £ 171 171 171 171 171 173.067 3		5,366 5,366 343 343 6,183 6,183	605 605 606 606 606 606 606 606 606 606	1,676 1,676 35 35 234 234	90 1,764 1,764 1,764 613 613	5,086 5,086 5,098 868 868	130 130 7,876 7,876 8,858 8,865	1,470 1,470 541 541 10,639 10,639	7,886 7,887 1,616 1,616 317 317
	April Amos. April Amos. April 4 mos.	April 4 mos. April 6 mos. April 4 mos.	April April April April April	April 4 mos. April 4 mos. April 4 mos.	April 4 mos. April April 4 mos.	April April April April 4 mos.	April April Amos. April April April April	April 4 mos. April 4 mos. April 4 mos.	April April April April April April April
id ngstown nta Fe	1 1 1	Atlantic Coast Line Charleston & Western Carolina Baltimore & Ohio	Staten Island Rapid Transit. Bangor & Aroostook. Bessener & Lake Erie.	Boston & Maine Cambria & Indiana Canadian Pacific Lines in Maine	Canadian Pacific Lines in Vermont. Central of Georgia. Central of New Jersey	Central Vermont. Chempeake & Ohio. Chicago & Eastern Illinois.	Chicago & Illinois Midhaud. Chicago & North Western. Chicago, Burlington & Quincy.	lle.	Chioago, Rock Island & Pacific Chie., St. Faul, Minn. & Omaha Clinchfield

REVENUES AND EXPENSES OF RAILWAYS (Doller Spreader stated in thousands; i.e., with last three digits omitted) MONTH OF APRIL AND FOUR MONTHS OF CALENDAR YEAR 1954

								200	AN SHADAN	and carry	CALCAL	PURIT TE	CALL AND									
Name of Road Colorado & Southern Ft. Worth & Denver Colorado & Wyoming.	April 4 mos. April 6 mos. April 6 mos. April 6 mos.	Average mileage operated during period 729 729 1,038 1,038 40	Freight 899 3,555 1,339 5,989 700 406	Operating 1	Revenues- lotal (inc. 1954 1,070 4,282 1,610 7,066 7,65	1,365 1,365 1,847 1,969 1,235	Maint, W Total 1954 138 524 216 1,174 9	Way and St Total 1 1953 150 544 254 1,113 71	Structures Deprec, and Retires ments 21 21 30 162 162 8	Ope 1954 171 1954 171 1954 1,028 1,028 109	Operating Es Maint. Equi D 1953 a 1953 a 186 751 246 1,085 140	Expenses injornent Depose. Depose. and Retire- meants 165 38 166 1166 1166	7 30 30 123 123 123 123 123 123 123 123 123 123	Trans- T portation 389 1.679 2.441 3.33	Total 1954 11,262 11,262 12,263 5,263	Total 1953 855 855 11,271 1,271 186 704	Operating 1954 1954 1954 62 178.9 652 178.4 68 174.8 59 17.1 57	(S 0 8 8 5 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Net from railway operation 9286 904 904 1,803 411	Railway tax ope accrusis 155 417 85 506 16	Net rail reting inc 1954 399 399 177 191 111	way 1953 247 272 272 1,110 49
Columbas & Greenville. Delaware & Hudson. Delaware, Lackswanna & Western.	April 4 mos. April 4 mos. April 4 mos.	168 168 793 962 962	140 620 3,666 14,993 5,096 20,308	128 603 775 3,081	148 654 3,962 16,219 6,544 26,061	176 714 4,442 17,932 7,710	26 112 554 2,289 863 3,202	40 137 803 896 3,240	15 49 200 138 551	21 106 739 3,291 1,084 4,595	39 106 3,385 1,312 5,186	255 181 724 318 1278	86 350 176 176	45 1,491 6,223 3,049			78.0 78.0 80.2 83.4	80.0 72.8 80.7 75.9 78.0	33 156 871 3,207 1,085	25 103 280 1,136 502 1,911	49 499 1,856 2,018	12 81 968 905 1,205
Denver & Rio Grande Western Detroit & Mackinsc. Detroit & Toledo Shore Line.	April 4 mos. 4 mos. April 4 mos. 4 mos.	2,164 2,166 232 232 50 50	5,258 21,151 157 594 601 2,594	196 792	5,642 22,789 160 610 641 2,789	6,985 27,569 152 644 722 3,126	1,121 2,877 40 160 74 316	1,236 3,110 42 167 79 319	433	3,800 855 59 238	1,201 4,633 91 66 25 91 256	288 1,142 9 38 118	181 754 20 17 17	1,616 6,820 140 189 780	4,039 15,400 115 450 354 1,457	4,886 7,713 124 455 369 1,521	71.6 67.6 52.3 52.3	70.0 64.3 81.7 70.7 51.2 48.7	1,603 7,389 46 160 287 1,331	5,446 3,446 108 108 464	1,017 4,167 18 82 79 384	889 1,310 101 109 525
Detroit, Toledo & Ironton. Duluth, Missabe & Iron Range Duluth, South Shore & Atlantic	April 4 mos. April 4 mos. 4 mos.	464 464 566 553 553	1,408 6,425 2,034 3,025 591 2,173		1,449 6,671 2,403 3,527 627 2,366	1,952 8,014 6,254 8,459 7,57 2,813	283 1,036 520 2,104 123 468	228 909 2,102 152 542	25632	267 1,082 811 3,345 534	263 963 787 3,147 142 625	386 386 1111 444 23	142 102 122 111	398 1,883 948 2,748 781	1,062 4,430 2,417 8,679 490 1,984	1,190 5,542 3,501 1,90 561 2,239	73.3 56.4 100.6 246.1 178.2 86.0	60.9 69.1 56.0 116.5 74.1	2,241 5,152 322 322	136 874 209 511 102	237 1,160 1,160 1,106 1,106	340 1,984 1,984 2413
Duluth, Winnipeg & Pacific Elgin, Joliet & Eastern Erie.	April 4 mos. April 4 mos. April 4 mos.	175 175 236 2,224 2,224	368 1,691 2,910 12,390 10,771 44,309	2,176	376 1,721 3,544 15,148 12,330 50,430	369 1,727 4,610 18,813 15,477 59,660	74 269 245 1,124 1,561 6,258	85 283 333 1,121 1,961 7,020	405 940 940 940 940	57 264 1,867 9,818 1,994 8,442	73 284 990 3,769 2,176 8,635	115 459 505 2,005	22 40 143 366 1,454 2	205 863 1,377 5,892 1,354 4	348 1,446 3,709 17,677 19,904 40,214	369 1,421 3,166 12,428 11,135 43,526	92.7 84.0 104.6 116.7 79.7	99.9 82.3 68.7 66.1 73.0	28 275 164 2,530 2,425	29 133 212 881 680 3,315	-70 -191 -598 4,538 1,157 4,434	87 329 1,564 6,865
Florida East Coast. Georgia Rallroad. Georgia & Florida	April A mos. April A mos. April A mos.	321 321 321 332 332	2,513 9,457 595 2,414 292 1,164	3,063	3,341 13,698 700 2,785 296 1,179	3,624 14,561 842 3,220 3,43 1,350	358 1,445 122 511 83 358	1,467 137 509 1114 406	342	452 1,921 108 518 39 156	2,176 142 546 546 33	312 312 129 129 20	309 309 34 138 138 179	1,214 4,893 293 1,202 92 350	2,286 9,390 592 2,514 2,49 1,011	2,495 9,800 708 2,666 2,666 1,093	68.6 84.5 90.3 85.8 85.8	68.8 67.3 84.0 84.4 89.4	1,005 4,308 1108 271 46 168	306 1,344 35 140 12 72	451 1,996 110 263 -10	509 125 499 3
Grand Trunk Western. Can. Natl. Lines in New Engl Great Northern.	April April April April April	952 952 172 8,305 8,305	4,578 17,502 193 651 15,631 60,199	188 777 16 2,952	5,098 19,640 217 741 17,589 67,985	5,543 21,135 175 970 21,666 73,718	2,588 63 245 3,989	2,687 2,687 267 4,128 14,171	53 206 9 18 334 1,306	882 3,501 35 149 3,667 15,358	3,502 3,4 201 3,876 15,093	357 754 2,963	83 304 11 412 1,652	8,703 1 122 122 535 6,246 1 26,160 5	3,956 15,824 231 980 15,200 15,249 69,249	4,251 16,236 1,123 16,210 60,820	77.6 80.6 132.2 86.4 87.2	76.6 76.8 136.7 115.8 74.8	1,142 3,816 -14 2,389 8,736	302 1,265 25 100 1,375 5,886	390 1,195 559 588 895	699 142 142 2,805 2,805 4,504
Green Bay & Western Gulf, Mobile & Ohio. Hinois Central.	April Amos. April Amos. April Amos.	224 22766 2,766 6,537 6,537	347 4,411 6,088 24,739 18,889 75,116	318 1,316 1,533 6,920	352 1,433 6,884 .7,980 22,840 91,664	384 1,462 8,160 31,839 25,650	87 1.112 3.940 3.483 14.016	78 266 1,221 4,575 3,617 14,913	16 69 279 485 1,579	1,335 5,476 4,145 17,087	39 148 1,461 5,540 4,048 16,932	31 1,107 1,107 2,825	24 91 1,126 554 2,134	105 415 2,160 8,624 8,610 34,466	282 1,027 5,261 20,617 17,839	238 915 5,494 21,512 17,964 74,188	80.1 71.8 75.4 78.1 78.1	62.0 62.5 67.6 70.0	70 405 1,623 7,363 5,001 19,743	31 181 634 2,709 10,880	10 129 639 2,940 1,681 6,864	51 1.082 4.134 3.004 9.865
Illinois Terminel. Kannas City Southern. Kannas, Oklahoma & Gulf.	4 mos. April 4 mos. April 4 mos.	355 355 891 891 327	2,943 3,117 12,261 380 1,760	55 223 104 461	3,497 3,551 14,102 1,771	1,014 3,893 4,110 16,882 615 2,422	138 559 328 1,475 235	164 620 512 1,863 103	102 39 144 30	146 641 413 1,595 158	184 706 430 2,012 34 133	167 167 357 45	185 96 392 29 114	352 1,439 1,066 4,239 116 465	745 3,078 2,040 8,219 257 1,058	851 3.256 2.319 9.405 312 1,184	85.1 88.0 57.5 58.3 67.4 59.8	83.9 83.7 55.4 55.7 48.9	130 418 1,511 5,883 713	223 665 2,617 316	53 161 659 2,477 39 272	305 743 743 123 505
Lake Superior & lahpeming. Lehigh & Hudson Fiver. Lehigh & New England.	4 mos. April 4 mos. April 4 mos.	156 156 96 180 180	107 224 277 1,087 629 2,262	::::::	255 255 278 1,090 634 2,281	429 603 308 1,122 1,865	218 218 42 154 305	61 201 40 156 43 307	26 10 23	272 32 32 127 151 590	242 35 122 77 479	16 63 34 40 159	513	52 178 90 361 192 770	192 716 192 744 473 1,879	234 744 186 720 253 1,626	154.1 280.8 69.2 68.3 74.5	54.7 123.4 60.6 64.2 131.5 87.2	461 86 346 162 402	94 31 123 106 282	485 28 109 118 362	178 208 48 142 18 287
Long Island	4 mos. April 4 mos.	1,163 1,163 360 360	4,697 18,614 1,216 4,272	301 1,157 3,126 11,960	5,290 21,074 4,581 17,160	6,512 24,677 4,596 17,516	3,069 748 2,708	853 3,094 649 2,563	93 370 110 369	3,644 976 3,729	1,090 4,298 920 3,561	208 828 125 500	136 553 24 65	2,254 9,307 2,466 9,579	4,355 17,580 4,389 16,775	4,755 18,635 3,976 15,938	82.3 83.4 95.8 97.8	73.0 75.5 86.5 91.0	935 3,494 192 386	411 1,652 358 1,432	372 1,274 449 2,198	925 3,235 -1,457

REVENUES AND EXPENSES OF RAILWAYS

Cut here to file

(Dollar figures are stated in thousands; i.e., with last three digits omitted) MONTH OF APRIL AND FOUR MONTHS OF CALENDAR YEAR 1954

	Avernoe	1				(Maine	Water Water	S. C.	10	Operating I	Expenses				1						
Name of Road Louisiana & Arkanses. April 4 mos. Maino Central. April 4 mos. April 4 mos.			a o	crating Reverse Total Total 1953 49 2.33 8.88 872 16.23 3.569 67.23 8.75 8.95	0.00 4 0.00 0.00 0.00 0.00 0.00 0.00 0.	misc.) 1953 2.530 9,742 19,905 78,542 1,2,216 9,198	Total 1954 271 1,186 1,565 1,565 1,654	Total 1953 377 1,444 2,852 (0,762 474 1,823	Deprec. Deprec. and Retirements 19 1, 226 3, 900 15, 28 111 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	195 195 195 195 195 195 195 195 195 195		Percent and Retire- ments 88 353 939 939 3,725 77	Traffic 1 74 357 1,380 1,24 82	Trans- portation 581 5.863 5.863 24,090 3,040	Total 1954 1,263 5,270 55,032 1,683 6,750	Total 1953 1.403 5.582 14.343 1.667 6,759	Operating ratio 1954 19 54.0 55 59.3 57 72 77 77.2 75 75.4 73	(E 10 0 - 0 0 10	Net from railway operation 1,007 2,391 12,262 498 2,209	Railway tax ope accruals 476 1,508 11,046 6,355 8	Net rail operating is 1954 1,849 1,783 8,149 196 839	t railway 1953 1953 9 1,971 9 1,257 9 11,257 9 992
Minneapolis & St. Louis	os. 334 os. 334 os. 1.397 os. 1.397 os. 3,222	158 14 662 17 1,522 17 6,275 22 2,728		15 6, 48 2, 219 10,	161 674 590 19546 69546 1961 1867	230 759 1,675 6,932 3,088	44 156 321 1,079 644 2,321	50 179 364 1,217 856 2,598	22 31 113 50 201	10 48 271 1,071 656 2,639	14 56 277 1,048 635 2,634	15 79 309 100 401	6 106 456 456 313	50 203 563 2,296 1,156 4,708	118 468 1,375 5,357 2,663 10,503	129 515 1,454 5,521 2,910 10,953	73.7 69.5 86.5 81.8 89.9	56.2 67.9 86.8 94.3 98.3	206 206 215 1,189 298 -36	118 98 565 213 783	13 43 113 608 43 806	39 575 575 667
Mississippi Central April Anna Missouri-Illinois Anna Missouri-Illinois Anna Anna Missouri-Kanssas-Texas April 4 mos.	April 148 mos. 148 April 172 mos. 172 April 3,241 mos. 3,241		194 814 490 1,645 5,254 20,820 1,0	243 6,1,056 24	198 829 492 1.658 1.658 14,195 24,195	244 968 968 1,950 7,441	61 249 87 310 861 3,619	53 200 72 317 1,079 4,099	20 411 411	29 109 81 333 925 3,735	23 105 80 308 1,134 4,421	238 238 954 954	14 56 10 39 249 983	48 204 125 454 9,420	162 661 311 1,178 4,657 18,995	163 667 275 1,186 5,172 20,605	81.8 79.7 71.1 76.4	66.7 68.8 53.4 60.8 70.7	36 168 181 480 1,437 5,200	13 57 104 260 543 1,772	15 73 238 550 1,974	27 105 116 354 910 3,392
Missouri Pacific April International-Great Northern Anna Gulf Coast Lines Anna 4 mos.	April 6,922 April 1,103 mos. 1,103 April 1,723 mos. 1,723	21 14,637 22 60,095 03 2,352 03 9,187 23 3,078 23 12,837		3,097 70 121 2 523 10 64 3	17,121 2 70,086 86 2,702 1 3,369 1 14,004 11	20,625 80,156 13,334 4,122 15,787	2,992 2,073 1,986 1,986 2,767	3,733 14,600 747 2,870 875 3,439	309 1,095 47 152 52 192	3,135 13,076 480 1,875 505 2,065	3,873 15,533 571 2,215 2,122	3,145 3,145 116 463 434	514 1,953 64 247 95 369	6,943 27,260 1,083 4,443 1,125 4,579	14,049 56,981 2,284 9,036 10,369	15,840 63,570 2,698 10,635 2,845 11,247	82.1 81.3 84.5 76.4	76.8 79.3 79.8 69.0	3,072 13,105 418 1,565 793 3,634	1,063 4,254 116 444 145 829	1,455 5,954 894 435 1,860	2.504 8,782 446 1,407 625 2,070
Montour April Montour 4 mes. April Nashville, Chatt. & St. Louis 4 mes.	April 1777 April 51 mos. 51 April 1,032 mos. 1,032		498 1,848 125 560 2,707 10,619	116 3,	502 862 141 605 548	2,341 2,341 223 800 3,638 3,985	2555 2555 113 548 2,000	334 334 283 2,016	20 67 10 172 172	254 48 238 428 1,662	318 318 312 312 525 2,028	13 18 137 549	1 1 118 460	165 678 49 220 1,124 4,490	298 1,189 121 568 2,363 9,122	433 1,615 199 730 2,480 9,644	29.28 85.6 98.6 72.2.5 72.4 72.4 72.4 72.4	65.9 69.0 91.2 68.2 69.2 69.2 69.2	203 674 20 36 902 3,425	27 108 47 185 405 1,562	53 46 196 390 1,592	56 69 35 171 553 2,106
New York Central. April Pittaburgh & Lake Eric. Anna. New York, Chicago & St. Louin Arril New York, Chicago & St. Louin 4 mos.	April 10,713 10,713 10,713 221 221 April 2,185 4,000.	13 43,000 13 171,773 21 2,443 21 10,781 85 10,891 85 44,074		8,551 59 34,032 236 60 2 269 11 130 11 558 46	2,689 11,762 11,455 11,455 11,455 11,455 11,455 11,455	69,894 273,676 4,353 16,935 13,912 55,239	9,533 11,833 431 1,646 1,462 5,441	9,650 37,253 533 2,015 1,623 6,648	1,058 4,100 38 161 146 568	11,056 49,044 993 4,077 2,070 7,965	14,393 56,165 1,093 4,332 2,152 8,754	2,371 9,568 293 1,160 349 1,379	1,080 4,349 73 302 328 1,267	26,256 107,438 1,066 4,443 4,214 16,992	51,166 205,603 2,789 11,366 8,543 33,443	57,059 228,970 3,308 13,268 9,102 37,146	86.4 86.9 103.7 96.6 74.6	81.6 83.7 76.0 78.3 65.4	8,061 31,108 100 397 2,912 12,584	4,778 18,440 244 1,146 1,385 6,122	1,364 5,436 5,436 2,910 1,226 5,153	6,406 19,189 1,178 4,311 2,027 7,473
New York, New Haven & Hartford April 100 New York Connecting April New York, Ontario & Western April 14 mes.	April 1,770 4 mos. 1,770 4 mos. 21 541 541 541		7,102 3, 27,695 15, 288 1,144 1,144 1,917	3,997 12	710 704 317 501 966	13,814 54,250 1,533 1,533 2,278	2,805 7,826 290 128 459	2,433 8,588 71 71 292 128 418	371 1,136 100 17 73	7,681 7,681 73 73 91	2,058 8,120 50 124 97	1,582	181 692 25	5,747 22,637 92 326 252 1,022	11,598 42,031 202 700 525 2,067	11,068 43,708 251 823 538 2,016	91.3 84.6 63.8 56.3 104.9	80.1 80.6 67.3 53.7 89.9 88.5	7,673 7,673 543 543 101	3,540 83 340 35 148	-783 60 16 197 -137 -524	2,965 48 383 -46
	6161		445 1,650 12,373 49,018 777 3,174	41 151 328 1,340 52	504 1,878 3,378 7,88 7,219	518 1,917 15,854 59,932 973 3,681	208 208 2146 8,868 188 700	2,393 9,130 197 834	1254	261 3,159 12,927 139 468	243 3,309 13,699 1118 496	12,677 2,677 110	31 325 1,288 48 198	216 870 4,314 18,141 1,001	368 1,487 10,591 43,739 671 2,597	367 11,430 11,353 46,036 698 2,941	73.0 79.2 82.6 85.1 80.7	70.9 74.6 71.6 76.8 71.8	136 391 9,205 117 622	34 1,920 6,883 46 276	47 4,887 4,887 199	58 184 2,170 6,623 91
Northern Pacific. April Northwestern Pacific. April April Oklahoma City-Ada-Atoka 4 mos. 4 mos.	90		12.151 44.270 1,010 3,785 3,185 511	387 13 1,813 50 7 3 1	809 378 041 897 515	15,064 55,678 1,169 4,180 347	2.391 8,335 1,325 1,325	2,834 9,075 298 1,306 89	1,011 22 85 10 10	3,029 11,700 103 368 7	2.769 11.1c.: 105 427	459 1,815 4 16	333 1,268 6 21 21 8	5,582 22,672 335 1,348 82	12,053 46,827 758 (3,148 53 196	12,096 46,693 835 3,487 195	87.3 93.0 72.8 80.8 44.9 38.1	80.3 71.5 83.4 40.9 56.2	3,551 3,551 283 749 65 319	1,145 4,687 55 219 28 132	1,069 276 64 64 132	4.208 4.208 122 108 25 43
Poznatylvania - Roading Seashore Lines Ameri Poznatylvania - Roading Seashore Lines Ameri 6 mos.	April 10,051 mos. 10,051 April 358 mos. 358	51 52.056 51 204.187 58 595 558 2,258		10,651 70, 43,415 278, 124, 420 2,	0.578 89. 7.38 2.745 2.	036 680 777 855	7,235 34,246 216 813	11,315 43,334 212 855	1,416 5,903 24 98	15,422 62,076 104 414	19,589 76,480 103 393	2,979 11,987 22 87	1,236 5,033 10 41	31,693 128,903 450 1,891	58,498 242,603 811 3,305	71.413 283,329 865 3,592	82.9 87.1 110.0 120.4	80.2 83.2 111.2 125.8	12,079 35,911 -74 -560	4,941 20,409 119 481	4,643 6,121 325 -1,598	8,204 26,236 -338 -1,628

REVENUES AND EXPENSES OF RAILWAYS (Dollar figures are stated in thousands; i.e., with last three digits omitted) MONTH OF APRIL AND FOUR MONTHS OF CALENDARY FEAR 1954

										4												
	N I	rerage deage	-	1			Maint. V	. Way and Structures Degree.	tructures Deprec.		Maint. Equip	repenses ment Deprec.									,	
Name of Road	g g	Z	Freight	Pare.	otal (inc	, misc.) 1953	Total 1954	Total 1953	Retire		Total 1953	Retire-	Traffic	Trans-	Total 1954	Total 1953	Operating	(23)	railway operation	Kaulway tax op accruals	E	lway neome 1953
Pittsburgh & Shawmut Pittsburgh & West Virginia Reading	April April April April April April April Amos. 1,	97 97 132 1,306 1,305	165 679 2,360 7,750 32,731	585	165 681 601 2,369 8,984 37,642	234 767 759 2,982 10,895 44,366	31 121 95 356 1,107 4,471	52 175 155 466 1,521 6,069	198 198 792	41 118 118 486 1,757 7,085	2,241 9,086	12 36 144 437 1,759	19 246 152 627	40 154 169 664 3.817 15,298	127 513 483 1,901 7,242 29,140	168 634 634 8,263 8,296 33,948	77.1 75.4 80.3 80.2 80.6	72.1 79.8 76.1 76.5 76.5	38 168 118 468 1,742 8,502	3,075 3,075		89 241 108 465 1,487 5,391
Richmond, Fredericksburg & Potomac April RutlandApril Secramento NorthornApril 4 mos.		1118 1118 392 392 264 264	1,429 5,655 358 1,345 152 733	2,255	2,307 9,258 400 1,510 158 759	2,453 9,984 450 1,865 407 1,689	278 1,183 80 302 62 62	393 1,388 91 318 65 212	25 99 91 411	349 1,355 57 244 12 50	325 1,214 66 287 20 94	280 1280 49 154 154	E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3,034 156 656 71	1,537 6,224 342 1,394 157 652	1,659 6,367 423 1,681 198 696	667.2 99.3 99.3 85.9	67.6 63.8 94.1 90.1 48.6	3,034 57 117 107	341 24 99 16 59	279 1,130 -91 -26	305 1,199 115 115 563
St. Louis-San Francisco. St. Louis-San Francisco & Texas. St. Louis South western.	April 4, April 4, April 4 mos. 4, April 1, April	4,601 3 4,601 3 159 1,562 1	8,345 33,935 299 1,371 4,794	382 1,654 3 17 13 57	9,498 322 1,468 5,000 20,323	10,935 42,253 512 1,886 6,650 26,167	1,592 6,324 43 173 714 2,960	1,701 6,594 70 253 1,206 4,019	165 598 23 23 59	1,604 6,578 40 130 615 2,715	1,748 7,175 39 155 778 2,655	516 2,012 1 4 105 419	366 1,391 26 103 171 685	3,692 14,910 148 610 1,453 6,078	7,825 31,387 269 1,062 3,135 13,154	32,245 299 1,187 3,941 14,734	882.7 883.5 4.2.4 64.7.7.4 64.7.7	56.25 56.25	1,672 7,260 53 406 1,865 7,169	2,724 33 145 867 5,033	2,975 34 93 725 941	1,321 4,535 60 194 933 3,827
Southern Air Line Southern Alabama Great Southern	April 4 4 mos. 4 4 mos. 6 4 mos. 6 April 4 hos.	4,078 1 4,078 4 6,286 1 6,286 7 326 326	11,405 44,923 18,090 70,641 1,218 5,085	1,075 4,617 1,098 5,062 51 244	54,185 21,061 83,283 1,412 5,932	14,712 58,952 23,349 93,072 1,792 6,781	2,241 8,846 12,979 11,856 918	2,476 9,759 3,057 11,949 915	184 734 245 936 114	2,414 9,312 3,689 15,539 1,106	2,468 9,805 3,890 15,616 1,386	536 2,119 804 3,180 62 248	365 1,465 425 1,695 133	4,330 17,274 6,516 26,495 414 1,729	9,862 39,006 14,620 1,038 4,160	10,295 41,536 15,131 61,111 1,143 4,668	72.4 72.0 69.4 71.3 70.1	70.0 70.5 64.8 63.7 68.8 68.8	3,756 15,178 6,441 23,914 374 1,771	5,683 3,006 11,110 151 687	1,961 7,994 2,963 11,153 1,880	8,751 4,298 276 864
Cinn., New Orleans & Texas PacificApril Georgia Southern & Florida. A mos. A mos. New Orleans & Northeastern. A mos.	acificApril 4 mos. 4 mos. 5 mos. 7 pril 7 mos.	337 337 397 397 203 203	2,644 9,22 3,513	131 687 71 356 33 163	3,682 14,315 926 3,339 1,051 3,976	4,236 16,210 945 3,539 1,226 4,461	518 1,922 208 768 171 580	456 1,772 178 671 144 615	166 128 128 130 130 130	2,592 640 273 140 542	3,307 82 325 325 124 483	396 596 26 163	552556	3,620 266 1,075 863	2,301 8,968 612 2,371 613 2,261	2,472 9,928 2,089 2,255 2,255	62.5 62.7 66.1 71.0 58.3 56.9	58.4 59.0 59.0 50.5 50.5	1,381 5,347 314 968 438 1,715	2,875 40 156 265 1,073	2,316 160 174 649	2,804 94 322 245 767
Southern Pacific. Texas & New Orleans. Spokene International.	April 8, April 8, April 4, Mos.	8,119 3 8,119 13 4,292 3 4,292 3 152	34,359 131,359 131,359 38,155 277 983	2,566 10,591 472 1,987	39,647 10,485 43,096 1,036	45,382 79,223 12,420 51,448 285 1,007	5,000 19,305 1,867 7,383 57 204	5,642 21,679 2,182 8,519 68 232	1,983 1,24 124 510 9	8,563 33,101 1,457 6,065 102	9,283 36,715 1,629 6,607 92	7,346 7,346 134 543 10 38	888 3,350 290 1,082 5	15,852 61,698 3,986 15,838 71 268	32,295 125,363 8,191 32,694 170 641	34,080 135,387 8,686 35,144 632	81.5 82.2 78.1 75.9 58.7 61.9	75.1 75.5 69.9 68.3 58.1	7,352 27,069 2,294 10,402 395	3,320 12,676 955 4,323 117	3,054 11,163 11,163 2,175 63 188	4,320 16,857 1,094 4,960 55 176
Spokane, Portland & Seattle Tennessee Central Texas & Northern	April April April April April April April	944 944 286 286 8	2,154 8,256 340 1,422 71 326	270	2,367 9,084 362 1,515 338	2,881 10,678 441 1,825 158 499	1,442 80 305 4 20	1,520 109 400 400 4	201 201 201 1	323 1,455 57 235 35	342 1,368 67 260 30	107 416 22 90 90 10	112 122 48 1	3,249 121 508 38	1,596 6,635 295 1,191 118	1,700 6,549 361 1,376 123	57.4 73.0 778.6 34.2 34.8	59.0 61.3 81.8 75.4 17.1	2,450 67 324 50 221	340 893 96 51 51	389 1,415 10 85 30 129	2,073 13 182 38 120
Tenas & Pacific Tenas Menican Toledo, Peoria & Western	April 1 April April April April April	1,836 1,831 161 161 239 239	5,630 22,959 248 892 584 2,371	1,252	6,453 26,389 262 942 591 2,409	7,479 29,802 321 1,212 661 2,574	1,115 4,368 50 218 111 422	1,030 4,056 60 233 124 425	352 25 25 26 26	4,328 29 115 611 213	1,153 4,541 27 111 43 181	968 113 45 45	201 819 36 44 180	2,063 8,624 49 126 522 522	4,726 19,553 153 672 383 1,483	4,909 19,703 172 722 399 1,471	73.2 74.1 71.3 64.8 61.6	65.6 66.1 53.6 59.6 60.4	1,727 6,835 108 270 208 926	2,469 2,469 51 113 88 401	2,746 38 176 300 300	1,104 4,337 56 180 82 385
Union Pacific. Utah. Virginian.	April 9 4 mos. 9 4 mos. 4 7 April 4 mos. 4 8 mos.	9,816 3 9,819 12 110 110 611 1	31,871 128,053 68 312 2,680 11,218	8,999 1	37,794 48.647 69 312 2,779 11,615	42,613 165,283 81 374 3,198 12,741	5,346 17,868 13 62 408 1,691	6,980 22,907 15 76 445 1,737	1,743 1,743 8 62 241	6,752 29,018 46 177 543 2,600	8,163 32,523 44 172 675 2,891	1,445 5,514 36 183 738	1,101 4,314 1,314	25,299 126,299 126 675 2,912	28,078 114,608 399 1,766 7,749	32,772 127,511 99 435 2,052 8,282	74.3 77.1 139.4 127.6 63.6 66.7	76.9 77.1 121.0 116.4 64.1 65.0	9,716 34,039 27 86 1,013 3,866	5,745 21,047 9 36 602 2,304	2,618 7,731 -16 -98 579 2,187	2,254 8,073 -14 -58 2,353
Wabaah Ann Arbor Western Maryland	April 2 4 mos. 2 4 mos. 4 4 mos.	2,393 2,393 294 294 857 857	7,805 32,253 737 2,778 3,194 13,158	331	8,907 36,586 744 2,801 3,393	10.161 39.132 756 2.972 4.185 16.651	1,266 4,625 78 314 461 1,981	1,351 4,801 119 352 538 2,008	390 390 7 27 52 235	1,469 5,910 135 535 675 2,669	1,268 4,976 126 489 658 2,896	365 1,443 30 121 225 861	308 1,242 29 115 102 393	3,763 15,303 310 1,307 1,102 4,552	7,220 28,661 573 2,529 10,367	7,365 28,439 573 2,195 2,663 11,052	81.1 78.3 77.1 83.9 74.5	63.6 63.6 63.6 6.4 6.4	1.687 7,925 170 452 864 3,533	2,587 66 163 381 1,777	2,754 68 165 613 2,460	1,197 4,498 91 361 879 3,226
Western Pacific	April April Mos.	1,193 1,193 1,042 1,042	3,725 14,184 2,320 8,521	193 713 111	4.011 15.223 2.485 9,171	5,105 20,140 2,801 10,777	2,887 321 1,299	3,413 353 1,319	334 39 159	639 2,528 416 1,727	2,559 413 1,797	159 666 76 303	203 70 70 286	1,241 5,078 967 3,883	3,160 12,239 1,881 7,625	3,446 13,426 1,944 8,039	78.8 80.4 75.7 83.1	67.5 66.7 69.4 74.6	2,983 605 1,547	315 1,319 141 558	476 1,479 314 394	647 2,683 323 1,116

16

Here's why Magnus R-S JOURNAL STOPS

give you

Better Freight Car Performance

Big improvement due to elimination of waste grabs, better journal lubrication, longer bearing life, reduced car servicing and maintenance requirements.

PREVENT excessive axle displacement in freight car journal boxes and you lick the major source of bearing troubles. That's exactly what you do with Magnus R-S Journal Stops and here is how they help.

No over-run lining, no displaced packing, no crushed dust guard. You get better lubrication—not only because the packing is held where it belongs, but also because the box does not rise to compress packing during braking or impacts. That helps maintain journal-packing pressures—provides a constant feed of oil to the bearing. And because the bearing cannot be cocked off the journal, you won't trap any loose strands under the bearing crown. Oilers can service cars faster, too.

You can also get real benefits if you use R-S Journal Stops with pad or mechanical lubricators—or packing "containers." Bearings last much longer regardless of lubricating method—don't get the concentrated uneven

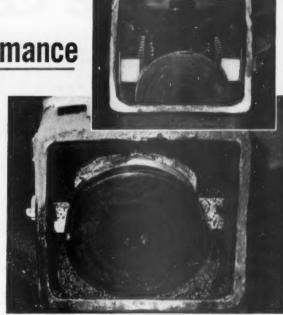
This CAN'T HAPPEN when you use R-S Journal Stops



Photo of journal box at impact of 6 mph, showing how bearing is cocked off journal and packing is displaced.



When air and hand brakes are both applied, note how bearing and entire box are raised, compressing packing.



Journal box with R-S Journal Stops after flat switching impact at $11 \frac{1}{2}$ mph. Packing is still in proper position. Compare with photos below, inset shows mounting of R-S Journal Stops with box jacked and packing, bearing and wedge removed.

loading that spreads linings, disrupts oil films. After two years' service, bearings originally applied with test sets of R-S Journal Stops were found to have crown bearing only $2\frac{1}{2}$ " to 3" wide—practically identical to conditions found at inspection after six months' operation. Dust guards were undamaged, and there was only slight wear on the Stops.

Now Available for Separable Boxes

New designs permit application of R-S Journal Stops to separable boxes as well as integral-cast boxes — with the same big improvement potential. For complete details write to Magnus Metal Corporation, 111 Broadway, New York 6, N.Y.; or 80 E. Jackson Boulevard, Chicago 4.





Right for Railroads
...in performance...in cost

MAGNUS METAL CORPORATION Subsidiary of NATIONAL LEAD COMPANY

"the Case of the Expensive Experiment"

Are you paying too much for diesel locomotive repair parts?

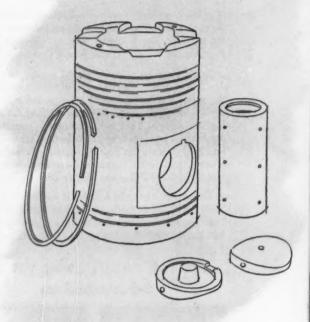
The real cost of your renewal parts may be higher than you think—if you're inclined to experiment with "just-as-good" substitutes instead by buying from the original manufacturer.

"Just-as-good" substitutes for Alco renewal parts may actually mean costly engine repairs, down time, and lost revenues. There are case histories in our files that prove this.

Take, for example, the railroad that "experimented" with piston rings in an Alco engine—buying and using so-called "just-as-good" substitutes because the price was attractive, regardless of inherent mechanical and metallurgical problems involved.

Result: One wrecked diesel engine and a monumental repair bill.

Renewal parts "experiments" are a risky business—and a risk you needn't take. That's why we say: Don't experiment . . . don't be fooled by costly "bargains" you can't afford . . . or parts you can't use. Specify genuine Alco renewal parts for your Alco locomotives.



THERE ARE NO SUBSTITUTES FOR GENUINE ALCO PARTS

ALCO

AMERICAN

GENUINE ALCO RENEWAL PARTS GIVE YOU THESE FOUR BIG ADVANTAGES



LATEST DESIGN FEATURES: The connecting rod above, for example, has removable bronze piston pin bushings and precision crank pin shells. All genuine Alco parts incorporate latest features developed through Alco's extensive laboratory and field research—for better performance, greater operating economy and protection against failure.



SUPERIOR QUALITY CONTROL AND FULL WARRANTY: Quality control at Alco ranges from miscroscopic analysis of metals (above) to mechanical testing of giant forgings. Backed by full warranty, all genuine Alco parts meet strict specifications—specifications established by specialists in railroad motive power.



SCIENTIFIC, UNIFORM PACKAGING: Notice how this Alco radiator grid is protected from dirt, moisture and rough handling by VCI (vapor corrosive inhibitor) paper, cellulose wadding or dunnage, and a heavy cardboard box made for the part and sealed with steel straps. This is typical of Alco packaging—designed to eliminate damage and simplify your storage problems.



MULTIPLE SUPPLY, SINGLE RESPONSIBILITY: Strategically located Alco warehouses stand ready to meet all your renewal parts requirements. Alco warehouses offer you the many advantages of multiple sources of supply—including fast delivery, low shipping costs, low handling costs—plus the added advantage of single responsibility and a single purchasing contact.

Contact your Alco Sales Representative today for further information.

LOCOMOTIVE COMPANY

New TIMKEN heavy-duty cuts freight car roller

to bring the "Roller Freight"



Comes from factory pre-assembled and pre-greased ready to press on the axle right out of its carton

First heavy-duty bearing that fits all side frame types

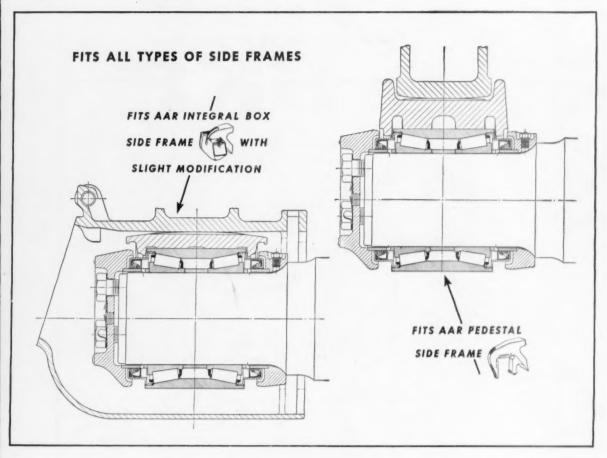
After years of development, The Timken Roller Bearing Company announces a revolutionary new heavy-duty Timken® bearing assembly that cuts the cost of applying roller bearings to freight cars 18% to 25%, depending on the size of car and type of side frame.

The lower cost results from 1.) a new, more economical beavy-duty design and 2.) production savings brought about by concentrating on one beavy-duty roller bearing assembly that fits all types of side frames for each size axle—5 x 9, 5½ x 10, 6 x 11 and 6½ x 12.

By slashing the initial cost of roller bearings for freight cars, the new Timken tapered roller bearing makes "Roller Freight" a more economical investment than ever — brings the coming "Roller Freight" age a big step nearer, with important benefits for railroads and shippers alike.

bearing assembly bearing costs 18% to 25%

age a big step nearer



The new Timken heavy-duty bearing assembly not only costs less to buy—it costs less to install, less to use.

Costs less to install because it comes from the factory pre-assembled and pre-lubricated with AAR-approved grease, ready to press on the axle right out of its carton.

Costs less to use because it's the first heavy-duty roller bearing assembly that fits all standard AAR types of side frames. No need to carry two types of spare axle assemblies for replacement.

The high capacity, yet low cost, of

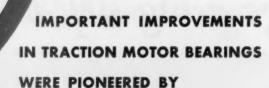
the new bearing assembly is made possible by better utilization of space. The outer race acts as the housing, making room for the large, long rollers that assure high capacity and heavy-duty performance.

In addition to the big, extra costsaving advantages of the new Timken bearing assembly, you get all the proven advantages of its tapered design. The taper makes Timken the only bearing you can count on to eliminate the hot box problem and cut operating and maintenance costs to a minimum. Get the full story today of how the new Timken heavy-duty freight car bearing assembly can give you all the advantages of Timken tapered roller bearings at a new low cost. Phone, wire or write The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO".

TIMKEN

TAPERED ROLLER BEARINGS

since 1939...the



SKF

Here they are—the 5 most significant improvements in traction motor bearing design, all pioneered by

- 1939 The use of crowned rollers provided significant increases in capacity.
- 1943 Assisted Railroads in developing "sealed-grease lubrication."
- 1945 MSSF's "High Capacity" design provided still more capacity in the same space. Larger, longer rollers again increased capacity without requiring more space.
- **1948** Improved cage design permitted easy disassembly and reassembly for inspection of all parts.
- 1952 SCF's M-2 Cage Design, applied to both pinion end and commutator end bearings, further facilitates disassembly and reassembly. Sealed grease lubrication now permits running up to 500,000 miles without relubrication.

Today's MOSE Traction Motor Bearings are the result of these milestones of design initiative—incorporating each of these technological advances to allow for a greater capacity and a reduction in maintenance costs.

Depend, as always, on BESF's leadership; depend, as usual, on BESF's uniform quality.

SKF INDUSTRIES, INC., Philadelphia 32, Pa.—manufacturers of SKF and HESS-BRIGHT ® bearings.

7530

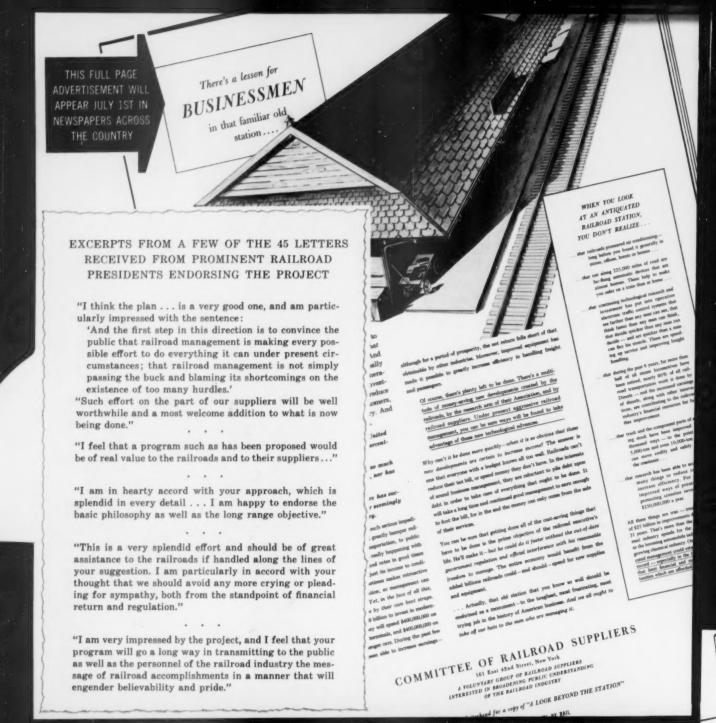




Pinion End Bearing with M-2 Roller Riding Cage. Disassembly for inspection is easy—just slide out the inner ring; you can then move the rollers out of the outer ring groove, and rollers and M-2 Cage slide right out. Reassembly is just as easy.



NOW IS THE TIME FOR ALL GOOD PAINTERS) TO COME TO THE AID OF THEIR INDUSTRY



WHAT THE RAILROAD ASSOCIATIONS SAY ABOUT THIS PROGRAM:

"I am sure that the movement will be helpful in building a better public understanding and appreciation of the achievements of the railroads, and a more lively awareness of railroad problems."

William T. Faricy, President, Association of American Railroads

"It represents an engaging approach to a difficult subject matter, and in our opinion, it should make a deep impression. The lines which I represent in the Southwest will, I know, be most appreciative."

Jervis Langdon, Jr., Chairman, Association of Southeastern Railroads

"I most enthusiastically endorse the proposal as thus far developed. I think the theme upon which you have focused your attention is timely. I likewise believe that when all of the supporting data has been pulled together the proposed booklet will be very effective. The railroad industry is indeed grateful for the generous contribution of your Committee."

David I. Mackie, Chairman, Eastern Railroad Presidents Conference

"The projected campaign of the Committee of Railroad Suppliers to activate serious public consideration of railroad problems through emphasizing progressive accomplishments of the industry even though hampered by restrictive handicaps, is a commendable and impressive undertaking."

Harold M. Sims, Director of Public Relations, Association of Western Railways

HERE IS A CHANCE TO REALLY ESTABLISH SOME UNDERSTANDING ABOUT THE JOB THAT RAILROADS HAVE DONE... AND THE INTERFERENCES THAT HAVE MADE THAT JOB JUST ABOUT THE TOUGHEST IN HISTORY

Have people — even those close to railroads — lost sight of the considerable progress that railroad managements across the country have made? Do they realize that this is one of the most exciting stories that American industry has ever been able to tell?

The Committee of Railroad Suppliers will take this story to the nation this month: the story of progress, of sound and able management unsurpassed on the entire industrial scene. It will be told in a way that will attract the interest of people who are in a position to aid the railroads on many fronts, and to help them realize their full potential. Here's what will happen:

- 1. On June 30th in New York City, the nation's press and a group of distinguished citizens, at a special conference, will hear Ben Fairless, Chairman of the Board of United States Steel Corporation, review the progress the railroads have made, and attempt to indicate the true potential of the American railroad system as a factor in the American economy and as our basic means of transportation in war and peace.
- In major newspapers across the country, the advertisement shown at the left will appear in full-page space.

- of this advertisement with a personal letter from the Executive Committee of the Committee of Railroad Suppliers. And before the impact of this has an opportunity to wear off, an estimated half million opinion makers will see the Committee's booklet A LOOK BEYOND THE STATION—which sets forth the full story of railroad progress, and contains ample proof that the railroads, one of America's greatest resources, can have a sound future.
- 4. Railroads themselves and many suppliers will concentrate on the theme of progress during the months that follow in their own publicity and advertising, each telling of his own contribution to the story of progress and modernization on the rails.

This largely new, fresh approach to the railroad story has been worked out with the cooperation of several leading railroad presidents, the railroad associations, leading suppliers, and important businessmen outside the industry.

It is to the advantage of every railroad supplier to tie into this campaign — to help bring broader understanding about the industry of which they are a part and to which they look for their own prosperity.

A look beyond the station...

A look beyond the station...

SEE HOW RAILROADS AND SUPPLIERS CAN TIE IN...TURN OVER THIS PAGE FOR INSTRUCTIONS.



TIE-IN...make this the BIG PUSH to get across the facts everyone should know

There are many ways that railroads and their suppliers can help tell the remarkable story of railroad progress — and to help people understand how much more the railroads *could* contribute to the economy if they were permitted to operate more like other free enterprise industries. The suggestions that follow are typical.

... have a house magazine?

If you have a house organ, you will want to bring the story of railroad progress and of railroad potential to your employees and customers. The Committee of Railroad Suppliers will send you information upon request or will help prepare material for your use.

... have speakers?

The booklet: A LOOK BEYOND THE STATION will supply material for your speakers. Special speech material and prepared speeches are available by writing to the Committee.

... have advertising?

The insignia shown at the upper left of this page is available for insertion in supplier's and railroad's advertising. It is available in several sizes and forms. Use it in advertising scheduled to run during the rest of 1954, and on your letterheads.

... have personnel meetings?

Education, like charity, begins at home. Millions of Americans are directly affiliated with the railroad business — employees of the railroads, or the suppliers. They should know the story best — for they are the people who will be most anxious to tell it.

... have bulletin boards?

Copies of the advertisement will be made available for posting on bulletin boards. A limited amount of other material is also available for posting, and the booklets — A LOOK BEYOND THE STATION — can be bought for employee distribution at printing cost.

...want to distribute books?

Railroads, associations, and individual suppliers are distributing copies of a look beyond the station to customers and others whose support they want. These will be supplied in any quantity at cost, or will be distributed by the Committee at cost to any list.

... have publicity outlets?

Many firms affiliated with the railroad industry have their own publicity facilities. They can tell the story of their own progress—the developments which they have made possible for American railroads. For this is the story not only of the railroad systems, but of the suppliers who have been in partnership with them for more than a century in building the most magnificent railroad system in the world.

...want a school contest?

Some railroads and suppliers will want to utilize this opportunity to interest the schools in what the railroads are doing, and what great progress has been made. Suggestions for essay contests and similar projects are available from the Committee upon request.

a new development to talk about?

There will never be a better time to tell the story of new developments which will contribute to the further progress of the American railroad system. If you have such stories, we urge you to tell the Committee as well as publicity outlets.

...does your local newspaper know what you're doing?

Use this opportunity to tell local editors what you are *doing*, or what you *have done* to help modernize the railroad system. They will be interested — and telling the story will make an important contribution to public understanding concerning railroad progress.

... can we help?

The Committee of Railroad Suppliers is a temporary group, set up solely for the purpose of managing this promotion — telling the story in a fresh, new way of railroad progress and railroad potential. If you have had a part in this progress, you have part of the story to tell. We want to help you in any reasonable way. Write to Fred Smith, Director, Committee of Railroad Suppliers, at the address below.

COMMITTEE OF RAILROAD SUPPLIERS

161 East 42nd Street, New York

A VOLUNTARY GROUP OF RAILROAD SUPPLIERS
ANTERESTED IN BROADENING PUBLIC UNDERSTANDING
OF THE RAILROAD INDUSTRY

SHIP BY RAIL TRAVEL BY RAIL

Questions and Answers for the TRANSPORTATION DEPARTMENT

How should demurrage be computed in a case like this?

A letter recently received commented upon the practice followed by yard employees of chalk-marking freight cars to indicate disposition. The writer asked if this practice is general; and, if so, how the correct marks are determined when cars frequently carry so many of them?

CONDUCTED BY G. C. RANDALL, district manager, Car Service Division (ret.), Association of American Railroads, this column runs in alternate weekly issues of this paper, and is devoted to authoritative answers to questions on transportation department matters. Questions on subjects concerning other departments will not be considered, unless they have a direct bearing on transportation functions. Readers are invited to submit questions, and, when so inclined, letters agreeing or disagree. ing with our answers. Communications should be addressed to Question and Answer Editor, Railway Age, 30 Church Street, New York 7.

Set up two accounts.

A car arrived at billed destination, consigned to "B," with stop-off for "A," both consignees being located at the same station. Both consignees removed their portions of the load without any physical movement of the car between the transactions. A stopoff charge was assessed. How should demurrage be computed.

In view of the fact that a stop-off charge was assessed, two demurrage accounts should be set up, one against "A" to run until he had completed removal of his portion of the load, the second against "B," thereafter, until the car was completely unloaded. -Eastern Association of Car Service Officers.

Chalk marks are useful; seldom confusing.

(1) We do not use chalking except on empty cars being returned to connections. These cars are pool-marked in chalk by car inspectors. We use the tagging system to show disposition of cars. When cars are received from connecting lines for placement at city wharves or industries, or for delivery to connecting lines, they are tagged and marked in heavy black pencil on the working side by the interchange clerk, showing where the car is to be placed or delivered. The foremen of our switch crews check these tags, and switch cars accordingly for delivery.—C. J. Laigast, superintendent transportation, New Orleans Public

(2) The chalking system is used generally in this area, and I have found practically the same system used at each yard location on the New York Central to which I have been assigned. The destination of a loaded or empty car, plus the date, is the basic information shown, and assists the yard conductor in preparing a switch list before actual switching commences. This is especially true where switching is flat or level. While cars are chalked, the basic information required in a hump classification yard is furnished on a Teletype list for the hump conductor. The chalk marks may still serve him as a double check against his list, and also assist the conductor in the reclassification yard where cars will be switched for local destinations. Chalk marks may often keep a car from going astray in case it gets on to the wrong track during the classifying process. . .

There is little difficulty experienced in distinguishing marks. The chalkers in any yard learn to restrict the location of their marks to a certain area on the car. Switchmen, accordingly, expect to find the chalking in which they are interested in that area on the car. In case of doubt, the date would be the deciding factor.—F. 1. Doebber, trainmaster, New York Central, Albany, N.Y.

(3) Chalk marks indicate only immediate disposition or territory (track or siding or where certain cuts are to be made), for the convenience of the

conductor and members of the crew as they get out of touch with one another. "OUT MTY 1/24," for example, is one of the common marks to indicate local disposition to crew members on a switcher making its rounds of various private sidings.

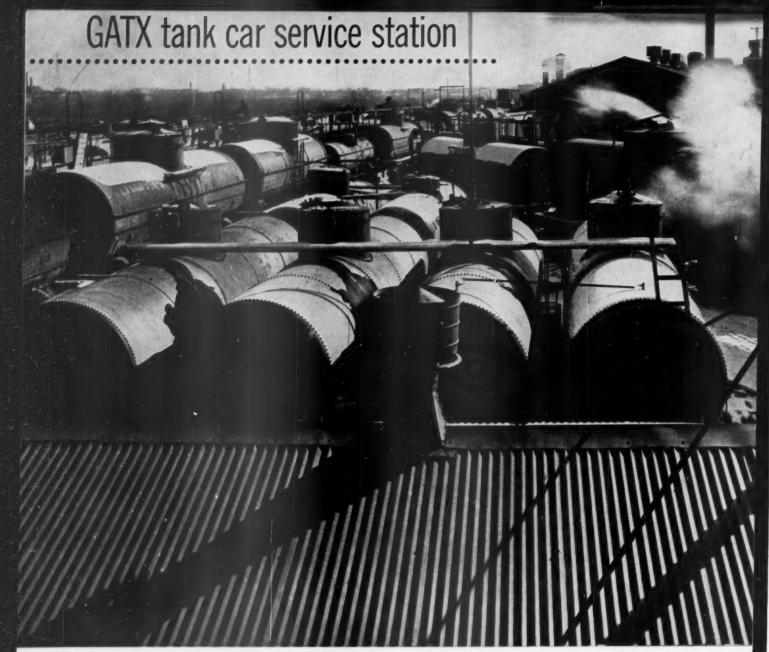
In larger yards, upon arrival of a train and while inspectors disconnect hose, bleed air, and look for defects, a clerk takes the inbound manifests, compares car numbers and manifests, and marks with white chalk on car sides for classification track number close to the lead end of each respective cut, with the same number on the trailing end of the car ahead. (This double marking not only confirms that the marking is not an old one but is of benefit to the switchmen in identifying one cut in advance).

In a rider-hump operation, chalk marks are indispensable to riders in placing themselves and testing hand brakes before the pin man gets to a cut as it approaches the apex of the hump. Cars to be weighed are usually identified by a simple "X" chalk mark or the letters "WGH." On some hump operations, due to the steep drop from the hump apex, and then leveling off to a minimum grade, loaded cars are chalked with a prefix of 100, i.e., empty cars would be chalked for "15" track, while loaded cars for the same track would be chalked "115." Riders, therefore, have some idea of how to handle brakes for the cut.

The maintenance of equipment department has a uniform chalking system. Cars receiving terminal inspection are marked: AEB | 1 which means: 104 24

Altoona East Bound Roster No. (of inspector) Day These marks have value to m. of e. supervisors in quickly determining responsibility for failure to note defective brake beams, journal boxes, etc. They also are used in determining identity of loaded cars which have become separated from their billing.

It is felt that chalking serves a very useful purpose in proper handling of cars in yards .- George Bender, yardmaster, Pennsylvania, Altoona, Pa.



Steam rack where 24 tank cars can be cleaned at one time

GATX tank cars are never more than a few hours away from "home base."

More than 30 General American repair shops give the 47,000 GATX tank cars their periodic steam-cleaning, lubrication, maintenance and inspection. Specialized equipment and parts inventories used in building more than 200 types of tank cars are also available for the repair and maintenance of the GATX fleet.

General American's experience gained in designing, building and operating railroad car fleets and shops for over 50 years gives shippers more dependable service for transporting liquids in bulk and greater flexibility of car types.

Car repair shops throughout the U.S.A.



GENERAL AMERICAN TRANSPORTATION CORPORATION
135 South La Salle Street, Chicago 90, Illinois
Offices in principal cities

Time to Cut Down On Public Controversy

The magazine "Printers' Ink," which speaks with authority in the field of commercial publicity, has expressed the opinion that the contest for control of the New York Central has not enhanced the reputation of private business in the minds of the general public. When business groups, in the heat of controversy, say things which are uncomplimentary of each other-the general public is sometimes inclined to believe both sides. However that may be, this and other proxy battles for railroad control have inevitably engendered a great deal of bitterness which it would help the railroad in-

dustry to minimize as quickly as it can.

If Sears Roebuck doesn't want to collaborate with Montgomery Ward, or if Ford and Chrysler do not have close contact with each other, their several businesses can, nevertheless, continue giving acceptable service to their customers. But it is not so with the railroads-in railroading, the most relentless rivals must work with each other to provide satisfactory service to patrons. Feuds of the Hatfield and McCoy variety just won't do in the railroad industry. When the Chesapeake & Ohio withdrew from membership in the Association of American Railroads in 1946, the actual fact was that that withdrawal involved only a fraction of AAR's total activities. In some nine-tenths of AAR's operations, the C&O has continued to participate and, indeed, within the last couple of years a C&O officer has headed one of the AAR's most important divisions.

In a "Meet the Press" television program just a few days before the New York Central stockholders' meeting was held, Robert R. Young made it clear that he is fully aware of the necessity for inter-railroad cooperation, if innovations in equipment are to be adopted. The interchange of traffic and rolling stock are basic to the railroads' public service; and interchange is impossible without

There is no reason known to us why Mr. Young should not continue to give full effect to his understanding of this situation-and if the rest of the railroads will continue, as they have right along, to meet him half-way in so doingthen the recent interchange of critical observations should be soon forgotten, and the sooner the

better. Because, as a plain matter of fact, there are too many "outsiders" enjoying open season on the railroads for railroad people to be able to afford the luxury of publicly heaving bricks at each other. Quite likely such tactics are unavoidable in a hot proxy fight, but prudent men will certainly not have any irresistable urge to continue them, when they no longer serve any really useful

purpose.

Indeed-quite apart from recent proxy contests-there has been in recent years an undesirable volume of inter-railroad controversy on other questions. Take, for instance, the matter of per diem payments for freight car rental. This subject is highly complex and highly controversial Principals in such a controversy, who have reached their conclusions after arduous study, cannot be expected to give way on their positions without a fight-merely to promote the cause of sweetness and light. On the other hand, could not the litigants be assured of the same degree of objective consideration of their sharp differences from a small board of able arbitrators, as they can hope to get from the Interstate Commerce Commission? The disadvantage of calling on the ICC to assume the roll of arbiter in such ultra-industry conflicts as this is that all the critical observations the litigants, perforce, make about each other become matters of public record-often providing easy ammunition to "outside" attackers.

This paper gave no great amount of space to the record in the great inter-territorial controversy over freight rate divisions, because it believed such publicity was a disservice to the industry. The witnesses could in no way be censured for the statements they made-since their opinions were (certainly in overwhelmingly predominant measure) honestly and competently held; and since the net income of their companies was heavily involved. But couldn't just as objective a solution to this controversy have been obtained by arbitration (if, of course, a legal means could be found to provide for it) as by resort to a public tribunal?

In the Book of Job, chapter 31, verse 35 appears the following observation: "Behold, my desire is . . . that mine adversary had written a book." That expression may be extended, as an admonition, to include any kind of public controversyin the public prints or in the record of public tribunals. Controversy is inevitable and is by no means, always, unhealthy. But the sooner mended and the less public, the better - especially in the railroad business where it is impossible for rivals not to work together, if the public is to receive

efficient service from the industry.

inter-railroad cooperation.



BRILLIANTLY LIGHTED, the waiting room windows and emblem on the pylon provide a nightime landmark. Note "stacked" brick effect of pylon.

IT'S 'QUAKE RESISTANT, TOO . . .

New Station, Better Location

Milwaukee builds Tacoma depot near shops to eliminate long service movements of equipment—Facility replaces obsolete frame structure



CLUB-TYPE ATMOSPHERE of waiting room is designed to enhance passenger comfort

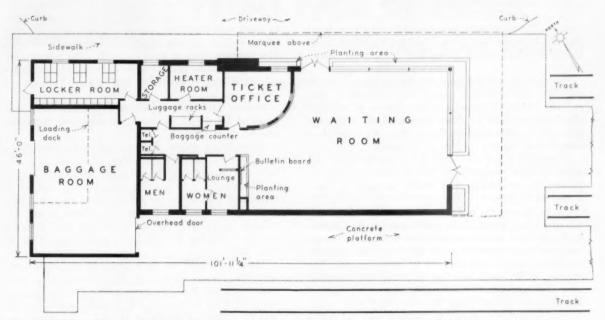
Combining the simple beauty of modern design with utility and passenger comfort, the Milwaukee recently completed a new passenger station at Tacoma, Wash. Placed at a convenient location away from congestion in the heart of the city, the new structure is served by adequate traffic lanes from two boulevards— East Eleventh street and Milwaukee Way avenue. It replaces an obsolete frame structure located in the downtown section of Tacoma, about two miles from the present site.

Since Tacoma is the western terminus of the Milwaukee's passenger service, all trains must be turned and completely serviced before starting their eastbound runs. The new station is located adjacent to the road's shop facilities, thereby eliminating delays inherent in the long movements from and to the old depot. With a tight turnaround schedule it was formerly necessary to maintain a complete standby train to assure on-time departure. Under present operation, it no longer is necessary to maintain this standby equipment.

The station building is 46 ft by 100 ft in plan, and is surmounted by a masonry pylon approximately 32 ft high. A stainless steel silhouette-type sign, illuminated with mercury-vapor tubing, reading "The Milwaukee Road," is located near the top of each of the broad faces of the pylon. These signs readily identify the station for a considerable distance in either direction along East Eleventh street. The depot is served by three stub tracks complete with platforms and a platform canopy.

Is Earthquake Resistant

Since the Tacoma territory is located in an area classified as being subject to severe earthquakes, building ordinances specify that construction shall be earthquake



PLANNED for utility, the new depot coordinates working space with complete passenger facilities.



STORE-FRONT FENESTRATION in waiting room provides outlook on wide driveway and train platform.

resistant. The new depot was designed to comply with these regulations. The foundation is of reinforced concrete with spread footings and concrete floor slabs. The superstructure is of reinforced brick and steel.

The brick walls are reinforced at the corners with Blok-Mesh which is laid horizontally between the brick courses. This reinforcement is spaced two feet on centers vertically and extends three feet each way from the corner. Parapet walls incorporate a specially designed type of bonded beam consisting of a $3\frac{1}{2}$ -in. continuous angle to which $\frac{3}{8}$ -in. round reinforcing bars are welded in a herringbone pattern. These bonded beams are welded at the corners of the building to provide a continuous ring of reinforcement. All interior partitions are reinforced with Blok-Mesh laid horizontally in every fourth joint. A wood roof deck, covered with a 20-year built-up tar-and-gravel roof, is supported by open-truss-type steel joists. These trusses are supported by and are welded to the longitudinal angles of the bonded beams.

A smooth-faced, titian-colored brick, similar to Roman brick but of an unusual size, has been used for the exterior. The main walls have been laid with a modified Flemish band. In the pylon, however, this band motif is varied with vertical joints and a "stacked brick" effect.

Fenestration includes large ranch-type glass areas on the sides of the waiting room facing Milwaukee Way and the trainshed. Store-front type frames of extruded aluminum are used for these fixed windows, which are glazed with glare-reducing tinted glass. All other door and window frames are also of aluminum.

A marquee along each side of the waiting room provides weather protection to patrons arriving and departing by automobile. The station grounds are land-scaped and lighted.

On the interior the walls are faced with glazed ceramic tile of a pastel green shade which matches the Milwaukee's standard green interior paint. These tiles are anchored to the exterior walls with wire ties vertically reinforced with Pencel rods set in cement mortar. The terrazzo floors blend with the walls and are composed of a dark green binder and an aggregate consisting of lighter green marble chips. The suspended type ceiling is of acoustical fiber-glass tile. Set flush with the ceiling

are Troffer type instant-starting fluorescent lighting fixtures with translucent plastic faces.

The ticket office is enclosed by a curved wall covered with glazed tile to the counter level. The space between the three ticket windows is faced with anodized aluminum in fluted sheets. An illuminated sign above the windows designates the ticket space. A gold tone photomural, depicting Chicago's lakefront skyline, fills the area between the sign and the ceiling.

The waiting room is furnished with lounge-type aluminum furniture, upholstered in plastic and arranged to impart an informal club atmosphere. An interesting feature is the train bulletin board, which is located in an illuminated recess above a "planter" area.

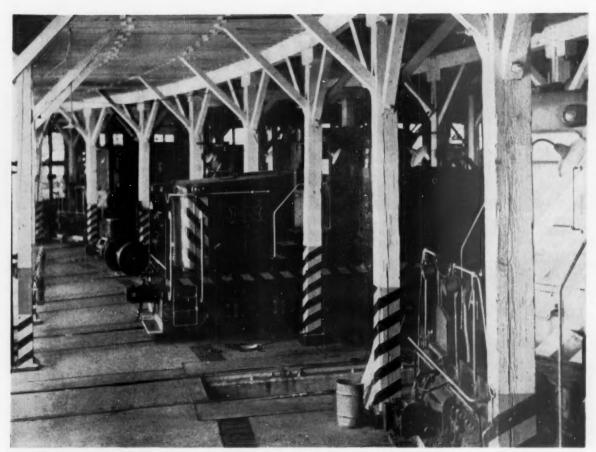
Adjacent to the women's toilet is a lounge equipped with vanity tables and mirrors. Booths have been installed in the corridor serving the toilets to provide both telephone and telegraph service.

A service hall connects the ticket office with the baggage room. A checking window opening from this hall into the toilet corridor permits ticket-office employees to check and store baggage on luggage racks adjacent to the window, without leaving the vicinity of the office. The baggage room is equipped with a truck-high platform and outside tailgate dock so arranged that heavy shipments may be easily handled between baggage and delivery trucks.

Welfare facilities complete with lockers have been provided for use of passenger trainmen and enginemen who tie up at Tacoma.

A ventilating system, designed for year-around operation, provides enforced circulation of outside air. The system is thermostatically controlled to provide heat to compensate for cold exterior temperatures. The air is introduced into the depot through a system of ceiling ducts equipped with anemostat and register outlets. The exhaust system picks up the air at the floor line and returns it through ducts laid in vitrified pipe below the floor slabs.

These new facilities were designed and constructed under the general direction of W. G. Powrie, chief engineer, and under the direct supervision of K. E. Hornung, architect of the Milwaukee. Ray R. Kelley & Co., Tacoma, was the contractor for the project.



GOOD ROUNDHOUSES have been converted to diesel work. The Frisco has but two—Ft. Smith, Ark. (above) and Tulsa, Okla.



What Kind of Shops

FOR DIESEL MAINTENANCE?

Is it best to build new? Or remodel? Are centralized shops better? Or can some decentralization be made to work?

The initial economies of dieselization—reduced ownership of equipment, reduced servicing equipment, greater fuel efficiency, and greater power and flexibility—have been pretty well realized in recent years. With most railroads heavily or completely dieselized, new and different problems are assuming greater importance. As the diesel fleet on an individual railroad grows older, maintenance problems begin to multiply. This in turn leads to the problem of proper and efficient maintenance facilities. Should new shops be built? Or old shops converted? Is it best to centralize all heavy maintenance? Or should some work be handled in outlying shops?

As one of the first major railroads to become completely dieselized, the St. Louis-San Francisco has definitely moved into the second phase. Its overall maintenance policy is typical in the sense that it follows the

This article is the second in a series on contemporary railroad management: its goals, its methods and its outlook. The series is being presented in the form of a case history of the St. Louis-San Francisco, its problems and how they are being handled. The first article, "People Are Management," appeared in the issue of May 3, on page 34. Other articles in the series will be presented at intervals, over a period of several months.





MOST OF THE FRISCO'S outlying steam servicing facilities were not worth retaining. This Wichita facility (left) was replaced by the one-stall shop building with pit, shown at right.



OLDER BUILDINGS cost more to heat and maintain, but offer more space at lower cost. Converted steam shop at Springfield, Mo.



HIGH CONSTRUCTION COSTS limit the size of new shop buildings—hence some overcrowding. New shop at Springfield, Mo.

general pattern (insofar as there can be said to be a "pattern"), with many and wide variations in details. As on all roads, conditions existing before dieselization strongly influenced diesel maintenance and operation.

Shop Building Program

Dieselization brings a need for an entirely different kind of shop. And it is always a question whether it is better policy to convert an existing structure in sound condition for diesel maintenance, or to build an entirely new shop which can be laid out exactly as desired. Conversion is usually cheaper, though the finished building is apt to be more expensive to heat and maintain. Conversion may also get around the congestion problem—the need for compressing much into small space—which sometimes results from today's high building costs.

Generally, however, the Frisco has preferred to build completely new structures for diesel servicing, maintenance and repair. It feels that, by minimizing space to that absolutely required to do the work, the shop can be kept neater and productivity increased because much less time and effort is spent in moving men and materials about. At outlying points there was the added reason that most existing structures were not in sufficiently sound shape to justify retaining. The more modern roundhouses, those with brick walls and concrete floors, have, however, been converted to diesel work at larger points where facilities had to be retained. At smaller points where it was possible to dispense with the facility, abandoned steam roundhouses, shops and maintenance facilities were torn down and the area opened for industrial development.

In line with this policy, a new shop building was erected at Springfield to handle all diesel servicing at that point, and most heavy repair operations. Among the reasons for constructing a new shop instead of converting an existing shop was that the Frisco anticipated early and extensive acquisition of diesel locomotives and desired to establish as efficient maintenance facilities as possible to take care of this power. There was a period of time when facilities for maintaining both steam and diesel power were required. Prior to construction of the new shop, there was little need for heavy-work space on diesels as the fleet was small and consisted almost entirely of yard switch engines. Servicing and what repairs were made were accomplished in existing steam space.

The new main diesel shop at Springfield, completed early in 1950, allowed for future expansion by means of a readily removal'e wall on one side and a diesel stores facility under the one roof which could later be moved into a new building of its own. But dieselization grew so fast that by the end of that year the shop was already too small. By the middle of 1952 an entirely new, adjacent diesel stores building was completed, and the diesel shop expanded into the space thus vacated. Additional servicing capacity was gained by adding four tracks beyond the removable wall. Heavy electrical equipment work, and major body repair activities, are performed in a portion of the old steam erecting shop.

The Frisco did one thing substantially different from what most roads did with buildings no longer needed for steam repairs. Little of the total area has been taken

over by the mechanical department for either car or diesel work. Much more has gone to the engineering department, and sizable sections in the several buildings have been converted to signal department work, bus and truck service, rail reclamation, etc.

Heavy repairs to all diesels (insofar as there can be said to be agreement among railroad men as to what constitutes heavy diesel repairs) are performed at the main shops in Springfield. Larger outlying points do, however, handle a substantial share of repair work on switchers assigned to the point, to the extent that repair work can be performed by inspection forces. Engine removals are done at Springfield only. Extensive repair work on traction motors and main generators also is done at Springfield only; complete overhaul is handled by unit exchange.

There was, however, a period of transition when, due to lack of space at the central shops in Springfield, some heavy work on locally-assigned switchers was handled at outlying points. During the past year areas in the old steam shop have been converted to diesel work—increasing total space sufficiently to permit handling all heavy work at this one centralized location. All power is now given major overhaul at this point, with all road locomotives being pooled out of Springfield, and switchers from outlying points worked in and out in local service.

What Diesels Have Done

What advantages does dieselization bring? The Frisco went into dieselization with a better-than-average fleet of modern steam locomotives whose general performance was good. The greatest benefit has been the elimination of intermediate engine terminals, and the reduction in required train mileage. The essential change is shown thus:

	1946-7	1953
	(Before die-	(After die-
	selization)	selization)
Gross ton-miles per train-hour	30,000	48,000
Average gross tons per train-mile		2,600
A E the e the second (10.6	17.5

These averages would indicate that the Frisco is moving heavier trains at slower speeds. Actually management feels that this does not present a true picture of the results of dieselization, citing the following interesting, though simplified and hypothetical, example of how both main and branch line speeds can *increase*, yet the average of the two *decrease*:

	Throug	ah	Local & Br	anch	Total	Average
	Train-Miles	Speed (mph)	Train-Miles	Speed (mph)	Train-Miles	(mph)
1945	600,000	30	400,000	10	1,000,000	22

This seeming inconsistency, of two things increasing while the average of the two decreases, can occur when most of the reduction in train-miles is made in through freight service because tonnage is available to take more advantage of the diesel's greater pulling force. With less or no reduction in the lower-speed branch and local train-miles, the percentage of these miles to the total increases (from 40% to 67% in the example). Actually, on the Frisco, through freight-train speed has increased from 19.8 mph in 1947 to 21.9 in 1953. Train-miles were reduced by about the same percentage as in the example, and all of it in through train-miles.







Fred J. Voss

Fred J. Voss New DM&IR Chief

Acting chief executive officer since retirement of Paul Van Hoven last December 31, he is now president and general manager of the nation's top ore hauler

Fred J. Voss, vice-president and chief engineer of the Duluth, Missabe & Iron Range since 1952, and acting chief executive officer of the road since January 1 of this year, has been elected president and general manager (Railway Age, June 7, page 50). He succeeds Paul H. Van Hoven, who retired as president at the close of 1953. Harry A. Smith, assistant chief engineer since August 1949, has been appointed chief engineer, succeeding to Mr. Voss' engineering responsibilities. (Mr. Smith's career is outlined in the "Railway Officers" news column elsewhere in this issue.)

Long a vital factor in the nation's steel industry, the DM&IR connects Minnesota's Missabe and Vermillion iron ore ranges with Great Lakes shipping at the ports of Two Harbors and Duluth, Built to heavy-duty standards and operating some of the biggest steam locomotives in North America, the 567-mile DM&IR is the largest iron ore carrier in the U. S. Its basic operations are geared almost entirely to the navigation season on the Lakes. For this reason, its operating ratio is abnormally high during winter months, when heavy repairs are carried out on its approximately 14,000 ore cars.

Terminal facilities at lake ports include two ore docks, a coal dock and a limestone dock at Duluth, plus three ore docks, a coal dock and a merchandise dock at Two Harbors. The number of employees varies with the season—generally from about 3,500 to 5,500. The road owns 176 locomotives—all steam except for 15 dieselelectric switchers. Passenger service is operated only between Duluth and Winton, about 118 miles to the north in the Vermillion Range. Recently the company acquired a Budd RDC-3 self-propelled combination mail, baggage and passenger car to handle this daily round-trip operation.

Civics and Safety

Mr. Van Hoven was born at St. Paul and attended St. John's University, Collegeville, Minn., and St. Paul College of Law, St. Paul. During summer vacations he worked in the stores department of the Great Northern. He began permanent railroad work in 1907 as rate clerk for the Northern Pacific at St. Paul and later joined the Chicago, St. Paul, Minneapolis & Omaha there in that same capacity. After having risen to the post of chief clerk in the accounting department of the "Omaha," he left St. Paul to become chief clerk to the auditor of the Duluth, Missabe & Northern (a DM&IR predecessor) at Duluth. During World War I he served as federal auditor of that road and in 1920 was named assistant auditor. From 1923 through 1928 he was wage schedule supervisor and assistant auditor, after which he served for two years as assistant to general manager. In September 1930, he was named executive assistant to president and in February 1934 was elected first vice-president.

The present Duluth, Missabe & Iron Range was formed in July 1937 by consolidation of the DM&N and the Spirit Lake Transfer Railway. In January 1938, the company acquired all capital stock of the Duluth & Iron Range and the Interstate Transfer Railway—both of which had been operated by the DM&IR under lease since formation of the new company. Mr. Van Hoven continued as first vice-president until June 1944, when he was named president and general manager. At the time of his retirement he was also a director of the company.

An incessant worker on matters of safety and accident prevention, he has been credited with much of the continuing drive behind the DM&IR's unusual safety record. His many and varied civic activities have also reflected his interest in safety. The list of civic and philanthropic organizations he served while heading the railroad is a long one that includes several public safety groups.

Mr. Voss, a native of Duluth, received his Bachelor of Science degree from Purdue University in 1926 and entered railroad service that same year with a surveying crew on the DM&N. In 1927 he joined its valuation department, but in 1928 left the railroad business to become field engineer for the Portland Cement Association. In 1931 he joined the Whitney Materials Company, Duluth, as sales engineer, but returned to his former duties with the cement association in 1933. He came back to the DM&N in 1936 as inspector, office of president. In 1939 he was named assistant to vice-president of the DM&IR-a position he held until 1944, when he was named vice-president. In 1952 he became vice-president and chief engineer-the position he held prior to his election as president and general manager. Like Mr. Van Hoven, Mr. Voss has taken an unusually active part in civic affairs throughout the territory served by the DM&IR.



N. R. CRUMP, executive vice-president, Canadian Pacific (left), spoke at the annual luncheon and labeled competition "the basic economic fact" in modern transportation. Introducing him is J. W. Harman, superintendent, Toronto Terminals division of the CPR, and outgoing president of the association...



B. W. TYLER, JR., assistant general manager of the Pennsylvania at Pittsburgh, was elected president of the superintendents' association for 1954-55, succeeding J. W. Harman . . .



K. A. BORNTRAGER, executive vice-president—operations and maintenance, New York Central, delivered the "charge to the superintendents" as the meeting opened. He urged that standards be set up to select and train supervisors, thus providing a "pool" of promotable material for management...



AND A TRIO of transportation superintendents (above) discussed efficient use of freight cars with A TRIO OF operating superintendents (below). Major area of agreement for the panel: "Service is all we have to sell."

Service: Key to New Business

Need of railroads to strive for sharper, faster service is undertone of three-day meeting of the superintendents' association

The quality of today's railroad service, and its effect on business, is a matter of increasing concern to railroad superintendents, judging by views expressed at this year's annual meeting of the American Association of Railroad Superintendents. The group held its 58th regular annual session June 8-10 at Chicago, and the members spent three days discussing and trading ideas on problems they

live with—diesel utilization, merits of flat and hump switching, employee morale, how to conduct investigations, and ways to clear derailments. Registration at the meeting was a near-record 418.

In addition to active discussion of six committee reports, the group this year heard addresses by N. R. Crump, executive vice-president, Canadian Pacific, and

K. A. Borntrager, vice-president-operations and maintenance, New York Central. W. P. Kennedy, president of the Brotherhood of Railroad Trainmen, spoke on "Safety," and R. J. Alexander, director of transportation for the Post Office Department, outlined the department's views on transportation of mail.

New Officers

Officers elected for the coming year included Mr. Tyler as president (see photo); G. M. Leilich, general superintendent, Western Maryland, first vice-president; H. H. Clark, superintendent transportation, Erie, second vice-president; J. C. Starbuck, general superintendent, Burlington, at Burlington, Iowa, third vice-president; J. A. Craddock, superintendent, Delaware, Lackawanna & Western, fourth vice-president, and D. E. Ferner, superintendent transportation, Chicago South Shore & South Bend, treasurer.

A highlight of this year's meeting was a seven-man panel discussion on the responsibility of the superintendent of transportation and the operating superintendent for efficient use of freight equipment. Mr. Clark, who heads the Transportation Officers committee, set up the panel, and W. H. Schmidt, Jr., executive editor of Railway Age, served as moderator.

As in other parts of this year's program, there was general agreement among panel members that the first concern of both the transportation and operating superintendent should be to provide service aimed at holding business and winning new customers.

H. L. Scott, assistant superintendent-transportation, Norfolk & Western; E. L. Morrison, Jr., superintendent freight transportation, Chesapeake & Ohio, and E. C. Leather, superintendent transportation, Western Maryland, represented the transportation officers' point of view. Speaking for the operating side were Mr. Craddock; F. J. Mulligan, superintendent, Erie, and G. R. Bowman, general superintendent, Nickel Plate.

Cars and Customers

Mr. Mulligan pointed to the obligation of an operating superintendent to be "traffic minded." and Mr. Bowman. commenting on tonnage vs. service, leaned in the direction of service, "Service," he said, "is all a railroad has

Mr. Craddock noted that prompt handling of empties is essential, and since they have to be moved sometime the added expense for promptness, if any, appears justified.

On the opposite side, the transportation officers had these suggestions: Mr. Scott said if railroads are to bid for high-rated traffic they must supply cars suited to the commodities or else lose the business. Mr. Morrison observed that efficient car handling saves money as surely and much less painfully than cuts in the work force. He said cars handled per engine-hour is a "somewhat outdated" measure of yard efficiency, and revealed that the C&O is studying the possibility of using business machine methods to develop a better yardstick. Mr. Leather opposed the idea of assigning car-hire costs to a division. He said such a division report would serve no useful purpose and to use it would distort comparisons because

of the uneven traffic flow and the concentration of repair work along a railroad.

"A Mighty Fine Tool"

Speaking at the annual luncheon on June 9, Mr. Crump told the superintendents that adjustment to present-day competition "is the biggest single problem the railroads have ever encountered." Favoring the railroads in such an adjustment, however, is the fact that they still are "a mighty fine transportation tool."

The CPR vice-president suggested that superintendents use every chance they get to talk up three propositions: That shippers, by their demands for transportation, be allowed to govern development of transportation the way consumers govern development of other industries; that producers of transportation be allowed to compete on the basis of price and service, and that each form of transportation be completely self-supporting.

Mr. Borntrager's statement embraced the suggestion that every superintendent develop a plan for the selection and training of subordinates. The plan he outlined calls for appraisal of junior officers on the basis of personal characteristics (initiative, dependability, analytical ability, and the like) and by on-the-job performance. Such appraisals will point up the outstanding men for advancement, Mr. Borntrager said.

Committee Reports

Flat vs. Hump Switching-"There is no clear-cut decision," this committee reported, as to whether flat switching or hump switching is preferable. Each type has advantages. For the flat switching unit there is low initial cost, low damage and personal injury rates, little time loss for cars requiring special handling, and low cost per car classified (when construction, maintenance, depreciation and hazards are included in overall cost).

Good points of the retarder hump operation include volume classification and prior classification for other terminals, low labor cost per car classified, a low casualty rate for employees and less damage to all the cars handled.

The committee stated that reports from various railroads indicate the saturation point in a flat switching yard is approximately 45,000 cars monthly, handled through a double-ended yard. In a retarder hump yard with the very latest equipment it should be possible to average up to 1,200 cars per trick.

Floor discussion of the report quickly turned to the problem of improving service, while holding terminal costs down. It was suggested that intensive study of yard operations, regardless of the type of yard, would likely turn up ways to speed the processing of cars. With respect to loss and damage, comments indicated that flat switching units are "neck and neck" with retarder hump yards.

Use of Diesels-As railroads approach complete dieselization, the factor of utilization becomes increasingly important. Maximum use of diesel power is needed, and all branches of the transportation, operating and mechanical departments must cooperate to this end.

Maximum work from diesels already is being sought in various ways:

(1) In times of slack traffic, some roads "double up" on motive power rather than put it in storage.
(2) System pooling is used "quite frequently." This cuts

maintenance cost by permitting centralized repair service.

(3) Tonnage ratings have been developed so full use can be made of various classes of diesels without risk of overloading.

(4) Train movement charts help operating people keep tab on locomotive power. Such charts aid in selecting the right locomotive for the job, and make possible advance planning for enroute power.

(5) Employees who direct use of power, and those who use it, are being educated to the importance of proper maintenance. Serious cooperation with the mechanical department is vital in effecting good maintenance policies.

(6) Operating department supervisors, given full authority for distribution and assignment of diesel power, have boosted utilization in some cases by 10%. (Such supervision should be established before a road reaches complete dieselization, lest an excessive number of units be purchased.)

(7) Other areas in which to look for improvement: Stagger way freight runs, including night operation of locals; adopt more off-track work equipment; schedule track maintenance on weekends or on light traffic days, and adopt dynamic braking in level as well as mountainous terrain.

Pointed up in floor discussion was the question of whether to use extra diesel units in trains or store them. There was some opinion that use of an extra diesel unit to share the work load will cut maintenance costs more than enough to offset the added cost of operation.

Employee, Public Relations—While the superintendent's primary job is to operate a railroad, he has an added responsibility to develop company loyalty and high morale among employees. In addition, he must "sell himself" to the road's customers and to communities which his road serves.

Good employee relations can be developed in many ways. Personal contact and an interest in working conditions and other employee problems is one method. Careful selection and training of supervisors is essential to any program. Of similar importance is the teamwork and loyalty shown by the officers, while a basic factor in the whole picture is the personality of the superintendent himself.

A wide acquaintance in communities along his railroad will help the superintendent do a better public relations job.

A willingness to speak publicly and an interest in civic affairs will aid him further. Among his "contacts" should be local newspaper people, with whom he should cooperate willingly in development of stories about the railroad.

Conducting Investigations—An investigation is an attempt to develop the facts surrounding an incident, and this report recommended eight "general points" to guide investigating officers:

(1) Notice to an employee, or employees, must be in writing.

(2) All witnesses with first-hand knowledge of the circumstances should be called by the carrier. The employee also has the right to have witnesses.

(3) Two entirely separate accidents or alleged rules violations should not be the subject of the same formal investigation.

(4) An investigating officer must not act in the dual capacity of examiner and witness.

(5) Witnesses to the occurrence under investigation should be examined only in the presence of the accused or his representative.

(6) The employee must be given opportunity to have a

representative present and to obtain witnesses for his defense.

(7) Carrier officers at the hearing should answer pertinent questions directed to them by the accused or his representative. The accused or his representative may also cross-examine witnesses,

(8) Notice of the findings and conclusions must be sent to the accused in writing within a reasonable time. Where schedule agreement rule governs, the time limit must be complied with.

Floor discussion of the report emphasized the need for a complete record in the investigation. There is less chance the investigation will be appealed or thrown out if findings are based on the careful examination of witnesses with all facts recorded.

Clearing Derailments—The primary object in clearing a derailment, the committee noted, is to open the railroad for resumption of traffic in minimum time consistent with safety and care of freight involved. The high cost of claim payments, materials and equipment makes it important that derailments be cleared with a minimum of added damage to the railroad's rolling stock, roadway and structures.

To obtain fastest action following an accident, advance training of personnel is necessary. Train crews, generally the first source of information, should know what to report from the scene. A "blueprint" plan which acquaints supervisors in all departments with their responsibility will speed the overall operation. At the wreck scene a competent officer should be placed in charge and given the "greatest possible elasticity" to make on-the-spot decisions.

Principal "tool" for clearing a derailment is, of course, the wreck train. This should be kept fully equipped. Bull-dozers have become a popular and versatile tool, although they must be used with care to prevent added damage to rolling stock and lading. Some roads have effectively used a "wreck truck" in small derailments, thereby avoiding the calling out of heavier work train equipment.

Further support for competent on-the-scene supervision at a wreck has developed in discussion of the report. The officer in charge should have complete control, and not be subject to conflicting orders from higher officers who are attracted to the wreck area. Other ideas developed in this discussion: Keep work equipment in good condition, make maximum use of track supervisors in minor derailments, consider placing re-railers on locomotives and cabooses, and install radio in the derrick to improve communications.

Business Machine Methods—The next "forward step" of the railroads probably will be widespread adoption of business machine methods. This committee sees mechanization of clerical work as a key to improved service. At the same time, substantial savings may be realized by elimination of large amounts of manual work and quick preparation of machine-printed records. A major asset of business machines is the flexibility which permits their being used for on-line operation as well as in yards and terminals.

Speedy transmission of information over the railroad is possible. Tracing service is improved; traffic offices get prompter, more complete data; supervision has more facts upon which to base decisions; distribution of cars is improved by centralized information and quick knowledge of empty car movements by type and location, and the per diem balance is subject to closer control.

The report stated the belief that business machine methods can be adopted on all railroads, the same as uniform couplers and other standard equipment items.

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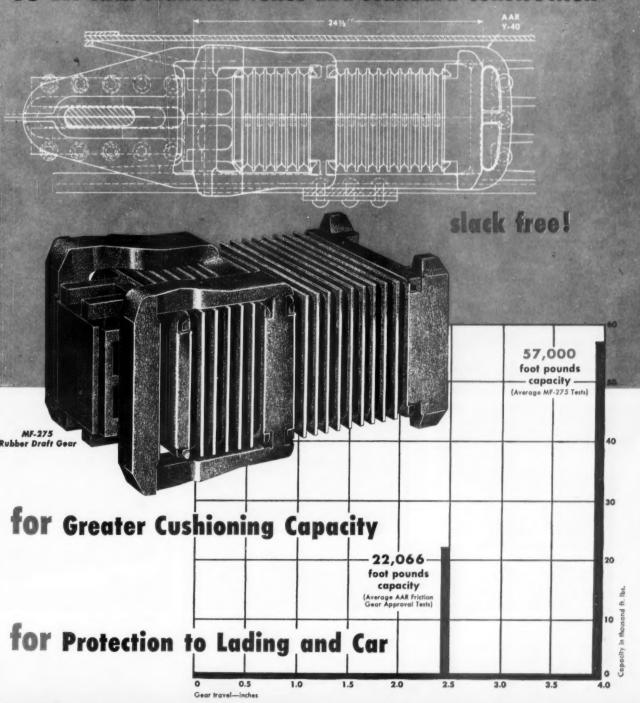
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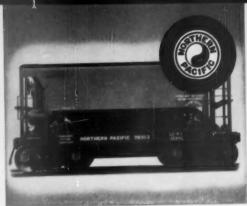
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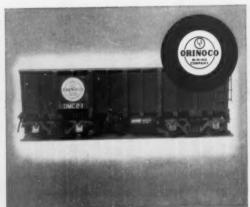




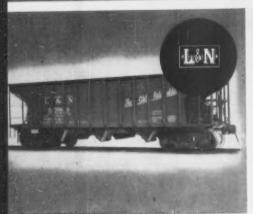


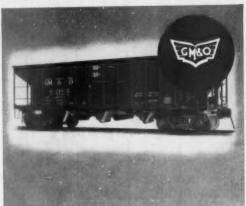
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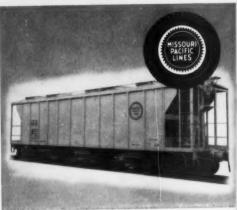
















Cars

Specify smooth-riding Ride-Control Trucks that are tailor-made for your operations!

Rarely will you find two ore-hauling problems that are entirely alike. That's why practically all major ore shippers specify Ride-Control Trucks. They know that ASF is the only truckdesign specialist in a field where specialization insures the right equipment for the job.

Heavy loads and severe grades present many problems. For example, the car must be compact-requiring a truck with carefully designed members and often with odd-size wheel base. Brake design, whether clasp or single shoe, must be integrated with truck design . . . a problem on which ASF's combined staff of truck and brake engineers can offer you constructive help. And last but not least, the truck has to ride smoothly so that the car will work together with the roadbed, instead of pounding itself into the repair shop.

In short, by any yardstick you use-past experience or present engineering facilities-ASF is in a unique position to design the truck that's right for your requirements!

RIDE-CONTROL, A-3

Application based on ASF experience with ore car truck design

Railroad	Carsets
Bessemer & Lake Erie	1,200
Chicago & North Western	300
Duluth, Missabe & Iron Range	5,500
Electro Metallurgical	41
Great Northern	700
Gulf, Mobile & Ohio	100
Louisville & Nashville	252
Soo Line	100
Northern Pacific	600
Orinoco Mining	560
Quebec, No. Shore & Labrador	1,200

*Made in Canada

TOTAL 10,553

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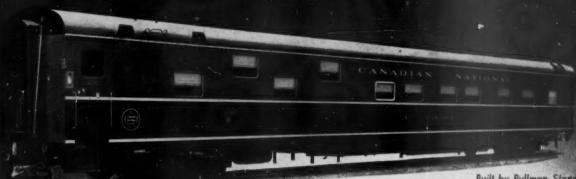
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Built by Pullman-Stand

Canadian National Passenger Cars Use Latest Type Trucks and Central Bearings for Comfortable Riding _ Simplified Maintenance

The several hundred modern first-class passenge: cars of various types being built for the Canadian National Railway are equipped with Commonwealth 4-Wheel Outside Swing Hanger Type Trucks and the new Central Bearing.

Commonwealth trucks with outside spring suspension not only assure better riding cars, but greatly simplify inspection and maintenance because of the greater accessibility of parts. Central Bearings, which take the place of the center plates, eliminate truck shimmy, side bearing problems and lubrication, materially reducing upkeep costs and substantially increasing wheel mileage between turnings.

The Canadian National, like more and more leading railroads, is adopting Commonwealth Outside Swing Hanger Trucks and Central Bearings for improved travel comfort and lower maintenance expense.



Commonwealth Truck for Canadian Nation

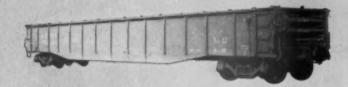


EE CITY, ILLINOIS



23,000 gondola cars have been built







USS HIGH STRENGTH STEEL

better with USS COR-TEN steel since 1934

COR-TEN steel construction prolongs life and reduces maintenance costs

by its superior ability to resist corrosion and withstand abuse

IFE is hard for the gondola car. No other type of car has to transport such a diversity of heavy and bulky commodities. None is subjected to more severe and destructive service conditions.

For in addition to being constantly exposed to atmospheric corrosion, while carrying minerals of various kinds, or lumber, steel products or machinery, the gondola car also takes a beating every time it is loaded or unloaded.

That is why 24 domestic and 7 foreign railroads have turned to USS Cor-Ten steel construction to keep down maintenance expense and to prolong the life of their gondolas. To date 23,000 Cor-Ten steel gondolas have been built. More than 4000 of them have been in service from 10 to 16 years.

During that time, Cor-Ten steel's ability to improve car performance has been amply demonstrated. These cars have stood up better than cars built of carbon steel. They have cost less for repairs.

Deterioration caused by atmospheric corrosion* has been greatly retarded because Cor-Ten steel has 4 to 6 times the atmospheric corrosion resistance of carbon steel -2 to 3 times that of copper steel. And, because Cor-Ten steel is 50% stronger than structural carbon steel, has 60% higher endurance limit, and offers greater resistance to distortion and denting, mechanical damage to these Cor-Ten steel gondolas has been kept to a minimum.

Typical of the railroads capitalizing on these cost-saving advantages of Cor-Ten steel construction are the Denver & Rio Grande Western which bought its first lot of 50 Cor-Ten steel gondolas in 1939 and now has 4800 in service . . . the Elgin, Joliet and Eastern which started with 200 in 1936 and at present owns 2,000 . . . the Great Northern which bought 500 in 1944 and has added 700 since . . . the Atchison, Topeka & Santa Fe with 500 Cor-Ten-built gondolas in service.

These representative roads and others on the long list of users of gondola cars that have been built better with USS Cor-Ten can tell you how this tough, strong, corrosion-resisting steel pays off for them. We will be glad to tell you who they are.

*A recent railroad study showed that corrosion is responsible for 58% of the cost of repairs to gondola cars.

UNITED STATES STEEL CORPORATION, PITTSBURGH - AMERICAN STEEL & WIRE DIVISION, CLEVELAND - COLUMBIA-GENEVA STEEL DIVISION, SAN FRANCISCO

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USS

UNITED STATES STEEL

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BARS—carbon & alloy, but rolled & cold finished STRUCTURALS channels, angles, beams, etc.

PLATES—sheared & U. M., Inland 4-Way Floor Plate SHEETS—het & cold rolled, many types and coatings TUBING—beiler & mechanical, seam-less & welded STAINLESS—Alleghony plates, sheets, bers, tubes



One man, working alone with a LeTourneau-Westinghouse earthmover, can handle maintenance jobs that now take an entire work train and crew!

These rubber-tired off-track tools drive anywhere under their own power. They take the shortest route . . . along the right-of-way, over paved highways, or cross-country. A phone call sets 'em in action. Operator just hops on and goes! 20 miles is only about an hour away.

On the job, the one man and one machine load, haul and spread traveling at speeds up to 28 mph instead of the 3 to 7 mph of a crawler-tractor. They never interfere with revenue traffic. They work independently, self-loading on small jobs, can push-load each other for team operations on big ones.

Find out more

Invite us to discuss your earthmoving problems. You can have confidence that we will recommend only the right tools for YOU, because no company has a greater interest in railroad success and economical operation. For decades, Westinghouse has supplied the best in brakes, switch and signal equipment. Now, through their wholly-owned subsidiary, LeTourneau-Westinghouse, they supply you with the best in off-track equipment, as well. May we have one of our earthmoving specialists call on you soon?

D Tournapull self-loads, hauls, spreads, and dozes. It can repair washouts, trim side-slopes, cut ditches, spread ballast, build bridge approaches, stockpile and reclaim coal, and plow snow. It "runs" job-to-job at 28 mph. Capacity is 7 yds. heaped . . . 9 yds. with sideboards.

Tournatractor, a 186 hp tractor-on-rubber, has a top speed of 19 mph. It clears slides, digs ditches, grades crossings, sets culverts, push-loads or pulls scrapers, spreads ballast, plows snow — does all the jobs a crawler-tractor can do — but does them 2 to 3 times faster.



No planking needed, either

LeTourneau-Westinghouse machines cross tracks without planking . . . de ne damage to ralls, ties, etc. Big, low-pressure tires deflect over obstructions, de net chamfer ties or trip signals.



LeTourneau - Westinghouse Company

PEORIA, ILLINOIS

A Subsidiary of Westinghouse Air Brake Company

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SHIPPER to CONSIGNEE







G-R-5

- **Electric Car Retarders**
- **Automatic Retarder Control**
- **Automatic Switching**

FASTER!

Your new diesel locomotives, modern signaling, better track and roadbed have all helped to speed up freight schedules between terminals. But . . . have your yards kept pace? Do classification delays nullify these improvements, deprive you of the competitive advantages you should be getting from improved service?

G-R-S classification systems—electric car retarders, automatic retarder control, automatic switching-can reduce time lost in your yards. One road, for example, replaced four rider hump yards with a G-R-S equipped retarder yard. Total detention of cars in yards was cut over 50%. Freight moved from shipper to consignee faster, and service to patrons was materially improved. At the same time, substantial savings were made in per diem charges, in yard operating expenses, and in the number of switch engines required.

Our engineers will gladly help determine what G-R-S car classification systems can do for you to speed classification, and to obtain better use of yards, locomotives, and manpower. Ask your G-R-S district

office for details.



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